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September 20, 1995 • #141

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- Haight-Ashbury Multimedia
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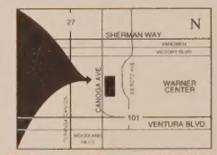

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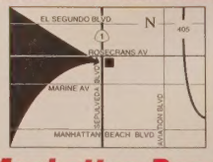

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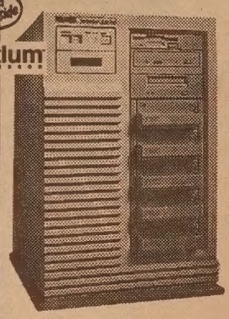

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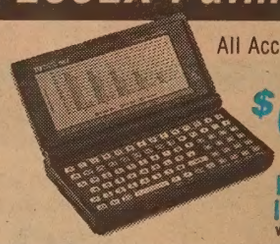

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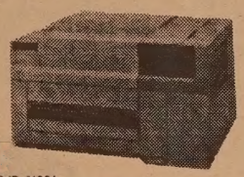
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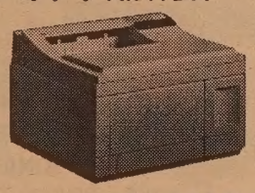
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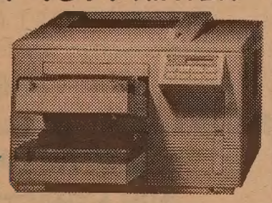
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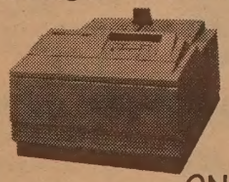
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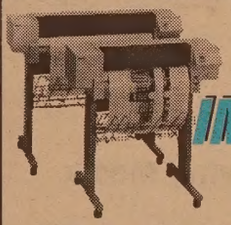
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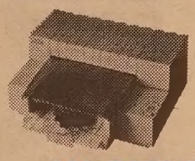
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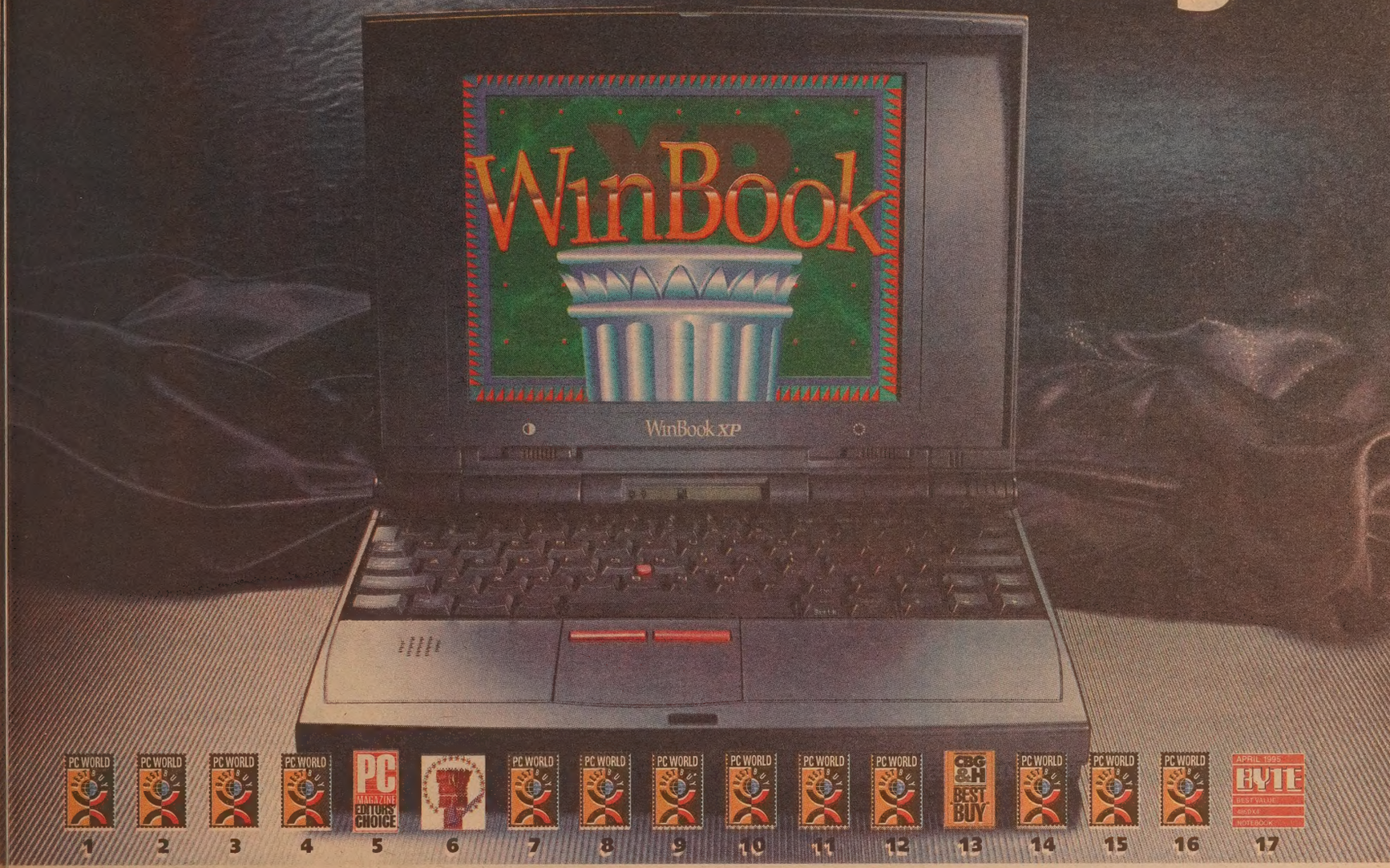

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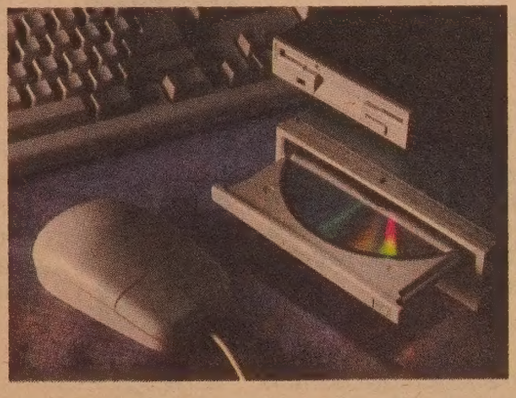

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He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics and statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that.

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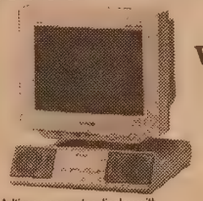

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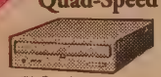

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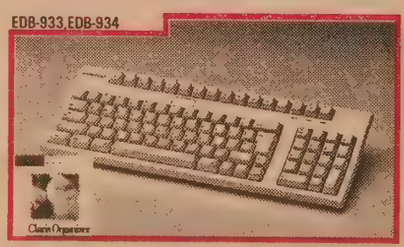

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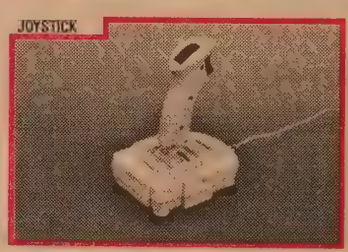

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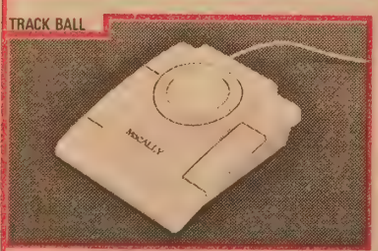

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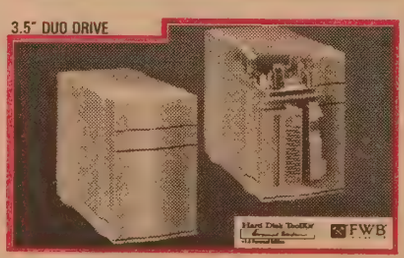

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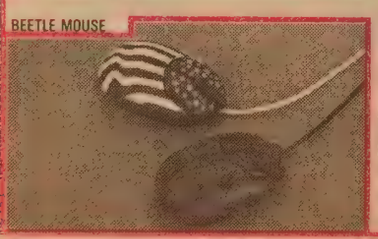

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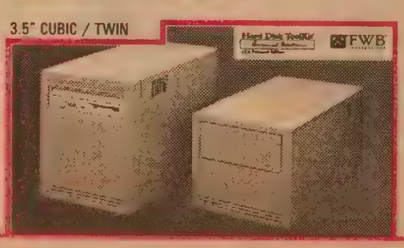

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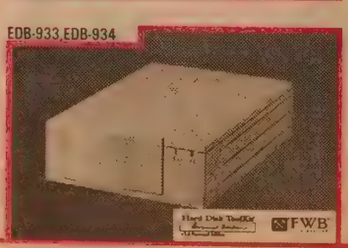

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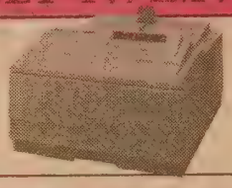

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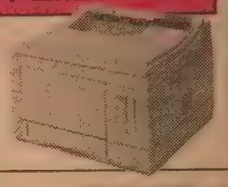

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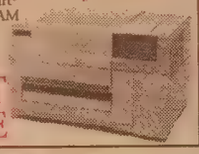

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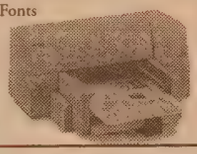

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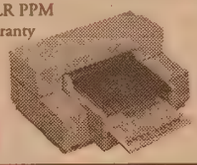

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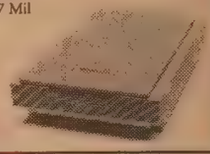

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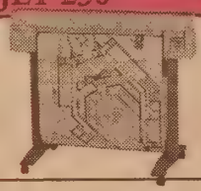

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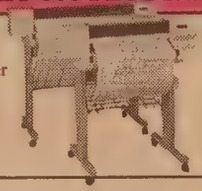

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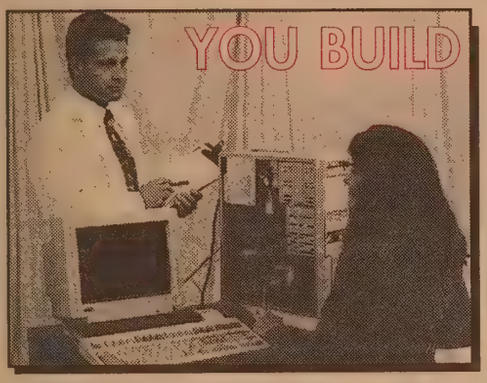

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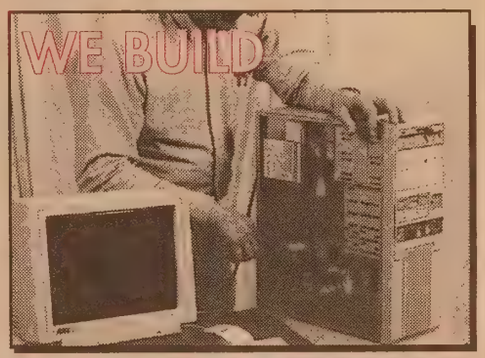

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BY PAUL HOFFMAN

Industry Insights

Prices Are Going Down, But Prices Are Going Up Moore's Law Isn't What It Used To Be

It's not an easy time to be shopping for a PC right now. The market is not moving in the direction you might've become used to, namely that prices go down and speed goes up. Over the past six months or so, the price of a PC has dropped while its speed increased a bit, but the real cost of a PC has remained level or gone up due to increased RAM needs and software prices.

It might seem odd that software can affect hardware prices, but the recent release of Windows 95 will probably make PCs more expensive in the short run. Although Microsoft insists that Windows 95 will run in 4MB of RAM, they're not really being honest. What they mean is that Windows 3.1 programs running under Windows 95 will probably do as well on a PC with 4MB of RAM as they did before. However, almost nothing else will.

New programs specifically written for Windows 95 (the real reason that you buy or upgrade to the operating system) will need more than 4MB of RAM. Thus, your $100 purchase of a Windows 95 upgrade might have to be coordinated with a $150 or $200 purchase of another 4MB of RAM. Fortunately, the operating system part of Windows 95 running on a system with lots of RAM doesn't run any slower than Windows 3.1, so you don't need to also buy a faster CPU.

Intel has been quite good about dropping the price of all of its CPUs over the past months, and will probably continue to do so for the foreseeable future. The CPU giant is simultaneously trying to make room for the still-unnamed P6 line, and tries to put its competitors like AMD and Cyrix out of business by forcing them to lower their prices below their profit point. PC buyers clearly gain from these price drops.

Keeping Up With The Operating System

However, at the same time, the need for faster CPUs (as compared to the normal desire) is still going up. When running real Windows 95 applications, a computer is actually doing much more than it did under Windows 3.1, and thus needs a faster CPU in order to keep up. Unfortunately, it also needs more RAM, mostly due to the multithreading features that Microsoft has built into Windows 95.

For years, software makers have been asking for multithreading. In short, it allows them to write software that does many things at the same time and does them in a way that lets the operating system figure out which is most important. It has many ideas in common with multitasking, and in fact does almost the same thing in Windows 95. If multithreading works the way it is supposed to, programs that use multithreading can share the use of the hard disk and CPU better and more efficiently.

Unfortunately, multithreading doesn't always work the way it is supposed to. On a slower CPU, a multithreading operating system runs much slower than a nonthreaded operating system because it has more to keep track of. If the operating system doesn't have enough RAM, the more threads a program creates, the more likely it is to need to use the hard disk, thereby slowing everything down incredibly. If you have a slower hard disk (such as on an older PC or on a portable), the slowdown will be incredibly obvious.

The solution to the problem is easy, but not cheap: Add more RAM. Although a faster CPU can help here, a few hundred dollars' worth of RAM will help much more.

The problems in threading were brought to light by none other than Microsoft itself about six months ago. The first version of the Microsoft Network program that comes with Windows 95 was fully threaded, just the way it was supposed to be. However, there were a huge number of complaints, even from people with PCs that had 8MB of RAM, that it ran too slowly and it caused their hard disks to thrash. Microsoft agreed, and took much of the multithreading out of the program so that it ran better.

The recent release of Windows 95 will probably make PCs more expensive in the short run.

Software Ain't What It Used To Be

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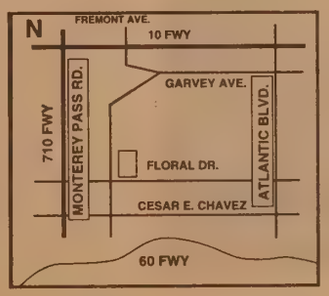

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Insights *continued...*

folks to get a full 8MB system. Recent versions of office applications have been requiring more RAM just to run. It is widely expected that by the end of this year, when most of the upgrades to Windows 95 for major applications have been released, that a typical user will need at least 2MB–4MB more for the applications than they did under Windows 3.1.

Worse yet, the cost of software has been going up for current PC users because the cost of the many upgrades each program goes through has been going up. Whereas upgrades five years ago might have been only $50 or so, many upgrades recently have been pushing $100 and more. At the same time, many people complain that they don't need or want the features being added in the new software.

Why upgrade your software then, if it costs too much and it takes more RAM? Because most software vendors stop supporting "old" software about six months after a new version comes out. Or, they will answer questions about the old software but not even try to help you if you believe you have found bugs. Thus, if you're using any software in your day-to-day work that you must have support for, you must upgrade regardless of the cost.

The third part of the triple-whammy is that now software technical support usually costs money after the first ninety days of ownership. In the past, the cost of support was built into the cost of the software; now support is an option, one which can easily cost $50 per year per package.

Why Won't RAM Prices Drop?

The problem with having to buy more RAM wouldn't be so bad if the price of RAM dropped as quickly as the price of CPUs or hard disks. However, RAM prices have remained constant for a few years now, much to the consternation of people buying computers (and, to a certain extent, the people writing software that needs more and more RAM). Two factors have contributed to the stable prices:

•The demand for RAM has gone way up. Not only are more computers being sold, they are being sold with more RAM in them. A few years ago, you could find new systems from major manufacturers with 2MB in them; now 4MB is the minimum, and 8MB is becoming the standard for many Pentium-based systems.

•Manufacturing of RAM has barely kept up with the demand. Pretty much every RAM chip that is made is spoken for before it comes off the assembly line. A few years ago, there were RAM merchants who would buy and sell spare inventory; they are few and far between these days, given how little spare inventory there is.

In some senses, we can be thankful that RAM prices have not gone up due to these factors. It is only the fact that more RAM manufacturing plants keep opening up that keeps the RAM prices from jumping. That somewhat delicate balance may not last for long, however.

Although the market for RAM in new systems is clearly bigger than that for upgrades, the upgrades market will soon become very important, given expectations of the number of people who will upgrade to Windows 95 over the

continued on page 162

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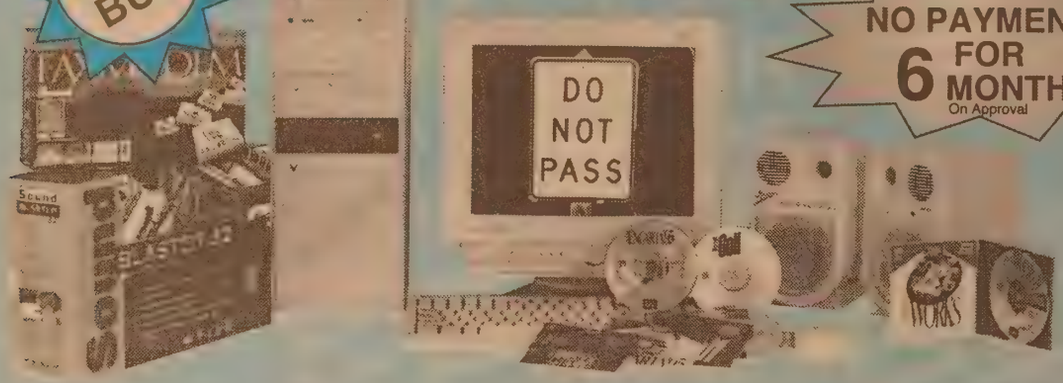

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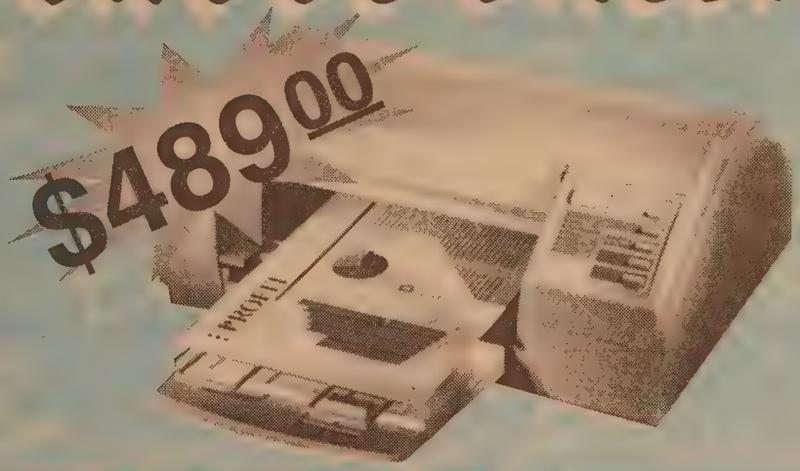

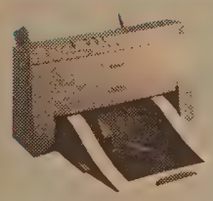

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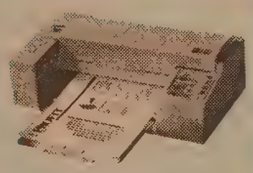

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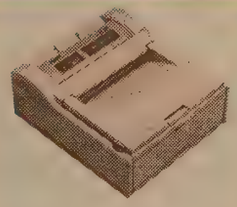

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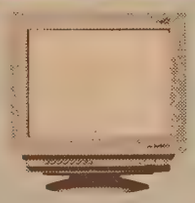

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2. The body politic must be functionally able to communicate with itself.

The public computer nets greatly facilitate freedom's first requirement—to the extent that government permits its information to be available electronically at little or no cost (for use by nonprofiting concerned citizens who've already paid via taxes for the information's collection and computerization).

But the nets have limited value for the communication prerequisite—since "only" twenty to forty million are on the net, globally (about two-thirds of 'em from the US, 260 million, with about 12% of those being in California).

For communication, the real value of the net is to aid in facilitating and coordinating outreach, by those who are on the net to the remaining 80–90% of the electorate who are not yet connected.

With few exceptions in this century, the only possibility for effective state or national political action belonged to those who could afford top-down professional political organizations and massive direct-mail campaigns—supplemented by huge media campaigns.

The nets are changing that!—and need one more crucial information component to *massively* empower bottom-up, citizen-based, grassroots action.

Communicating With The Body Politic

Apologies for stating the obvious, but in order to communicate with the body politic—the electorate—one must be able to identify its members and how to contact them.

This information is in the voter registration files that are readily accessible to and massively utilized by every professional political operation.

The only campaigns that have any hope of success use voter reg data for absolutely essential outreach and advocacy—primarily via direct mail, phone calls, and precinct walkers, plus get-out-the-vote work on election day.

Voter Privacy Vs. Voter Access

Citizens do *not* register to vote in order to stand in lines, pull levers, or punch holes in cards. We register in hopes of imposing our will upon our entire community—local, state, or national.

We register in order to participate in the political process—and a crucial part of the political process is dialogue and advocacy—inconvenient and irritating though some of it is.

Although political decision-makers would often *prefer* to be secret and unreachable, a free society cannot exist where its decision-makers are hidden. And voters are this nation's most powerful decision-makers.

And most certainly, those who are already in power, who already have the names and addresses of voters and already have ample access to media and funding, and those political machines that create "graveyard voters," would *love* to prohibit "outsiders" from having any useful access to voters' names and addresses.

For these reasons, *voters' names and addresses should not be secret.*

To the extent that we can implement free and low-cost *grassroots communications and* coordination *alternatives—that prove effective at the ballot box—*money *will become less important in* political decisions.

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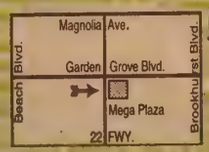

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Grassroots Access To The Body Politic

Voter registration data is computerized—names, mailing addresses, voting jurisdictions, and party affiliation (needed until we have open primaries where voters can vote for *any* candidate in a primary, rather than being limited only to those in their own party). Voter files also usually include records of last voting dates—needed to purge voter rolls of long-vacant un-voters.

By law, and as a crucial component of freedom, that information is available to anyone wishing to independently verify the accuracy of voter registrations, or, more often, wishing to utilize it for legitimate political advocacy.

And by law in many states including California, voter registration information is prohibited from use for nonpolitical purposes (except by law enforcement, jury administrators, welfare workers, and numerous other government uses, completely unrelated to the political process, and certainly not why citizens register!).

Political advocacy—regarding legislation or elections—requires access to this information.

Effective advocacy requires access in computerized form.

Implementing Access: 58 Citizens Needed

Effective participation in the political process should not continue to be limited to professional political hacks and big-bucks lobbyists. You, personally, can change it!

If you provide reasonable evidence that access is for authorized purposes, you can review voter reg files in the office of your county's Registrar of Voters, and you can obtain an electronic copy of part or all of them—usually on 9-track magtape and increasingly on PC or Mac diskettes—upon request and payment of usually nominal fees (that are *supposed* to be no more than the actual incremental cost of creating the copy).

Contact your county's Registrar of Voters (there are 58 counties in California). Urge the Registrar to make the voter files available online. If (s)he refuses (most will), obtain an electronic copy of them for use in political advocacy.

Make them available online for legitimate citizen activism, with protections against abuse (details in next column). If you don't know how, contact me online (email to *jwarren@well.com*) and I'll help.

As this crucial support data for freedom becomes available, I will distribute details in my free online "GovAccess" notices, for activists and concerned citizens.

We need these records to be available, online, without cost—and with at least the level of protection against improper use as is implemented in Registrars' offices.

Implementing Effective Grassroots Activism

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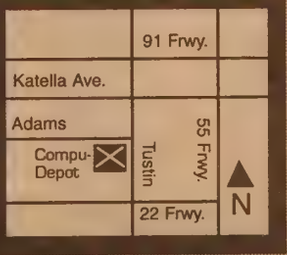

Realizable Fantasies *continued...*

without big bucks!—can use them to implement net-coordinated voter registration drives to those who are *not* registered; net-based, personalized mailing campaigns; net-aided precinct walks; net-facilitated get-out-the-vote efforts; and, irresistible grassroots advocacy for and against legislation.

Obviously, there are numerous opportunities for software and online services—for free and for fee—to support empowered, egalitarian political activism. (More details in future columns.)

Note: Politicians want big-bucks political contributions to fund their high-cost political campaigns and centralized direct-mail campaigns and advertising. But every politician knows that the most powerful communication—by far!—is personalized, citizen-to-citizen advocacy.

To the extent that we can implement free and low-cost grassroots communications and coordination alternatives—that prove effective at the ballot box—money will become less important in political decisions.

Help the People speak!—to each other.

<Flame on> Bypassing Wells Fargo

No longer can one telephone a Wells Fargo bank officer. Now, victims are immersed in a baroque phone-tree quagmire from which there appears to be no human exodus—at least not until the secret escape code is disclosed after almost a minute of instructions-for-the-braindead.

Seems I withdrew loot from a Wells ATM, only to discover a sheet of postage stamps, cut to the size of paper money, in place of one of the $20 bills—apparently resulting from the ATM mixing rejected money with rejected stamps for human recycling (more mis-engineering). I called the Wells phone-tree listed on my bank statement; eventually encountered a human; was told to deposit the stamps with an explanatory note and my account would be credited for the $20 I didn't get. I did; they didn't.

Thus—starting out unhappy—I called to chat with my friendly neighborhood bank officers (they are!). *Ha!*—not at Wells Fargo, I won't...at least not easily. The old branch number referred me to the phone-tree that hadn't solved the problem in the first place.

After half a minute of Wells-blather, I got to "business customers" and obediently pressed the specified button. Another phone-tree.

A minute into auto-drivel, I chose a business customer selection that sounded like it might get me a human. *Fat chance!*—another phone-tree.

Suspecting there probably wasn't a button for replacing unwanted stamps with undelivered $20 bills, I pressed "0"—the usual way for bypassing a phone-tree. But Wells knew that trick! They weren't *about* to let a customer obtain service *that* easily.

With escalating fury, I pressed more buttons,

continued on page 165

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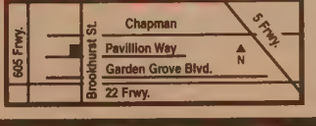

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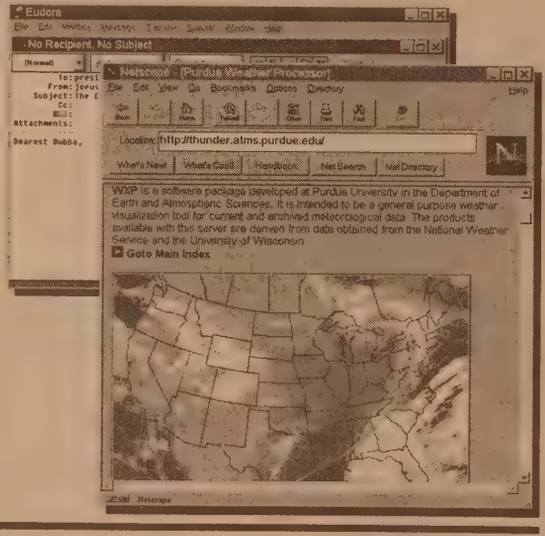

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Letters

Wireless: Is It Safe?

I've read your featured articles this month [Issue #140] on public access spectrum.

I am curious. Aren't radio waves in the 5GHz range dangerous at all? My microwave oven operates at 2.4GHz, right?

I guess if they find it safe in Europe it must be OK, but I'm surprised I couldn't find any reference to it in your articles.

Sam Li
via Internet

We referred Mr. Li's question to our friend Dewayne Hendricks of Warp Speed Imagineering in Fremont. Dewayne is currently involved with a number of projects involving the NII Band. Here's what he had to say. —eds.

You are correct. Radio waves at this frequency can be dangerous to humans, if the power levels used are too high and the exposure to them is too long.

Devices for the NII Band which will be used in close proximity to humans (i.e. LAN devices) will operate at very low power levels and comply with existing RF radiation standards. Devices that operate outside and away from humans (i.e. MAN devices with rooftop mounts) will operate at higher power levels, but again in compliance with existing standards.

Bay Area Volunteers Wanted!

We'd like to inform your Bay Area readers of several types of opportunity for applying their valuable skills on interesting, important projects:

CompuMentor is a nonprofit organization now in its eighth year of providing computer assistance to nonprofits and schools. In the last year alone, we placed some two hundred volunteer mentors who helped groups assess their technology needs, set up membership databases, publish newsletters, install LANs, and connect with online resources—among many other projects.

While smaller nonprofits are typically slower to acquire the new technologies, mentors can make huge contributions through creative application of existing resources. The simple automation of a mailing list, or the sharing of a printer, or setting up email, can greatly improve the effectiveness of a group's efforts.

continued on page 202

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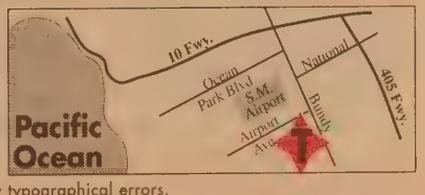

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On-The-Go With A Paperless Office

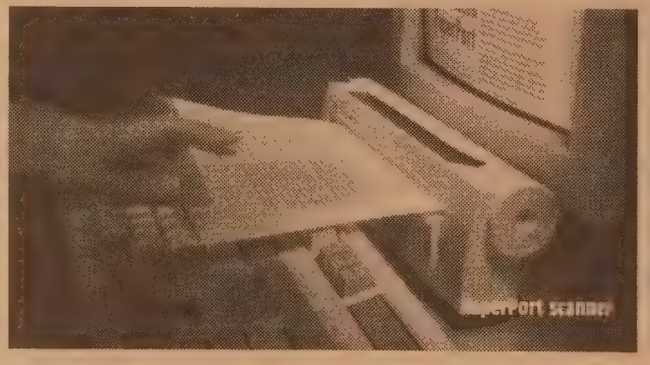
The Ingredients For A Greatly Reduced Paper-Based Office —While On The Road

For more than a decade, the idea of the paperless office has been hyped by pundits in the industry and the media. But in actual practice, most of the past decade has been marked by an increased use of paper. Finally, however, the technology is here to make the paperless office nearly possible for those who want to make the shift. The ingredients needed to create the paperless office are a good fax/data modem, a capable scanner, and a large hard disk. While these requirements are easily enough met in most offices, it is now possible to take this show on the road.

The Hardware—28.8 Communicator

PCMCIA has been a real boon to all computer users, especially those of us who use portables. This interface provides a fairly standard means of attaching a multitude of devices to our systems. One of these devices is Simple Technology's new 28.8 Communicator, a fax/data/voice modem that blazes along at 28.8Kbps. The last time I examined a voice modem, the smallest unit that was available was not much smaller than a subcompact portable. The 28.8 Communicator does all that its larger siblings did just a couple of years ago, only better. Of course, the PCMCIA device does not offer LED readouts or have a built-in speaker, but the electronics of this system are highly advanced and make a portable, running Windows, into a highly efficient system. It is available for either MS-DOS/Windows or Mac systems.

Simple Technology's 28.8 Communicator package contains the modem and all of the necessary software to run it as a standard modem, efficient fax, or portable answering machine.



Plus, with the addition of a special cable ($90), this modem will work with a cellular phone, freeing you from the need for either a phone or power connection.

The hardware in this package consists of nothing more than a Type II PCMCIA card and a cable that connects to a phone line. There are, however, two instruction manuals and several 3.5" disks containing software. The instructions for installing the modem are simple and straightforward.

The first requirement to use the 28.8 Communicator is to make sure your computer has the necessary software to recognize the PCMCIA card. Simple Technology gives detailed instructions on how to determine if the software is installed or not. Although most computers with PCMCIA capability now come with the software installed, not all do. If the software is missing, it is sometimes difficult to know if you have the software installed correctly the first time. I appreciate Simple's basic discussion of this step in installation. Too often, instruction manuals assume a level of sophistication on the part of the end-user that simply is not there. It is easy enough to skip over parts of a manual that you already understand, but it is a real pain to seek out missing steps from technical support people.

Once you have determined that the PCMCIA software is in place, there is nothing more to do than plug the card into the slot and connect the device to a phone line and a receiver. The user guide provides detailed instructions about using AT commands. While I appreciate this and regard it as essential reference material, most users will not need to use this information as communications software automatically issues these commands.

Of all facets of computers, I must confess that I still find communications the area of greatest challenge and mystery. Fortunately, sophisticated software removes much of the mystery when it works correctly. It's kind of like painting by the numbers.

The Software—QuickLink

Accompanying the faxmodem card is Smith Micro's QuickLink communications software. This Windows-based software offers easy, yet powerful solutions. One of the features I especial-

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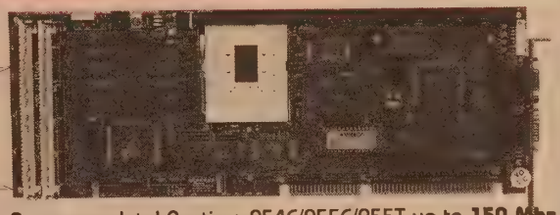

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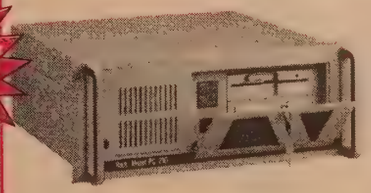

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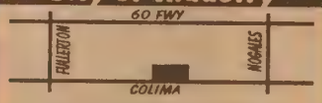

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Laptops *continued...*

ly like is a screen saver that lets you know if you have voice messages. This means that when you return to your computer, you do not have to take any special action to learn if you have messages.

The answering machine module of the software is sophisticated. You can set the system up to have a single mailbox or multiple mailboxes. Each mailbox, of course, can have its own message for callers. While I find it unlikely that on-the-go users will need multiple mailboxes, it seems that it would be only a little harder for the software developers to include this option. Another feature is the ability to have the computer page you when you have a message.

The machine answers the phone with a simple voice message, which will either give a direct answer or instruct the caller how to reach the box they want. In any case, if the incoming call is a fax, the message will stop when it hears the fax tones and automatically transfer into a fax mode.

The fax software is powerful. It can be set up to make calls at the least expensive times as well as send the fax to a group of recipients. If you fax most of the documents created in your word processor, you can set up your software to use the fax driver as the primary printer. This means that when you send something to print, it will automatically be sent as a fax rather than to the printer. The 28.8 Communicator comes with a five-year warranty.

The Scanner—PaperPort

Increasingly, I am coming to appreciate the convenience of a faxmodem. It used to be too difficult to add a signature to a faxed document and modify incoming faxes that need to be filled out and returned. This was the missing link for effecting a paperless office. But now, there are products like Visioneer's PaperPort scanner that facilitate just this type of work. The PaperPort is small enough to carry in your luggage, but it does require a power supply. It measures about 3" x 12" x 3.75" and attaches to a serial port.

The PaperPort is designed to be used continuously. There is no on-off switch. Simply feed in a piece of paper and the scanner springs to life and calls up the software. The small unit is designed to fit between a keyboard and the monitor. On portables, if you do not have an external monitor, simply set it to the side.

The PaperPort lets you scan in documents, fill them out on the computer, and then transfer them directly to the fax software. This addition makes fax boards every bit as convenient as standalone fax machines. In fact, I find that faxing from my computer is more convenient than using a dedicated fax machine. There are a number of advantages. First, I always have a copy of the faxed document, as it stays on my hard disk until I remove it. Secondly, I can make multiple copies of incoming faxes.

But the PaperPort offers lots more than the ability to send faxes from your computer from hard copy. The scanner is designed to scan all kinds of documents and then file them in folders that you set up. You can, for instance, set up a folder for newspaper clippings and a different one for computer-related documents. You can set up as many folders as you like. The software lets you do simple editing like cropping and trimming. You can scan in documents as long as 30" to accommodate newspaper articles. You

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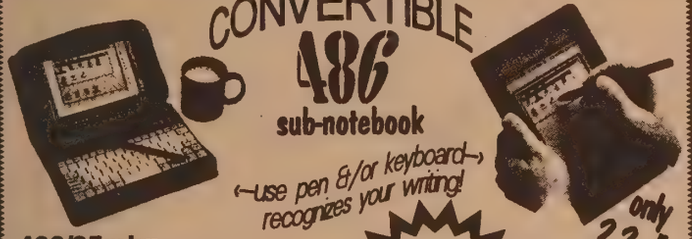

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Laptops *continued...*

can also scan small items like business cards. You can then make notes on the documents and fill out forms. In addition, you can drag the document into any of the applications that you have linked to the PaperPort and it copies the document into that application.

Let's say you have edited a newspaper clipping and want to fax it to a friend. Simply drag the document thumbnail sketch to the fax box and it is sent on its way. If, on the other hand, you want to import the article into your word processor, you would simply drag the document into the word processor box and an efficient OCR will translate the document into editable text.

Visioneer's PaperPort is a major advance and something I highly recommend to any computer user. And, by the way, models are available for either IBM compatibles or Macintosh computers.

RESOURCES:

28.8 Communicator, $469
Simple Technology, Inc.
3001 Daimler St.
Santa Ana, CA 92705
1-800-367-7330

Follow Fax for Windows, $9.95/month
Alphanet Telecom Inc.
145 Vallecitos De Oro
San Marcos, CA 92069
1-800-301-3349

PaperPort, $399
Visioneer, Inc.
2860 W. Bayshore Rd.
Palo Alto, CA 94303
1-800-787-7007

Helpful Peripherals

Another piece of software that you can import into is ZyLab's ZyFile. This will index the documents so you can find any text later. This means that you can store a vast number of documents and in seconds retrieve any of them. I find that more and more I am choosing to store documents on my computer rather than in file folders.

It used to be that receiving faxes when away from your home or office was simply not convenient. Now there are a number of solutions. Alphanet, for instance, has a service called Follow Fax for Windows that provides a phone number that will receive faxes for you. You give that number to people and download the faxes at your convenience. The service starts at $9.95/month and can take faxes for you around the clock.

Is the paperless office really here? Hardly. But we are moving in the direction of being able to store increasing numbers of documents on our computers and then retrieve them, fax them, print them, read them into OCRs and word processors, put them into paint programs for manipulation, and on and on. For a few hundred dollars, you can begin to expand the use of your computer greatly. ■

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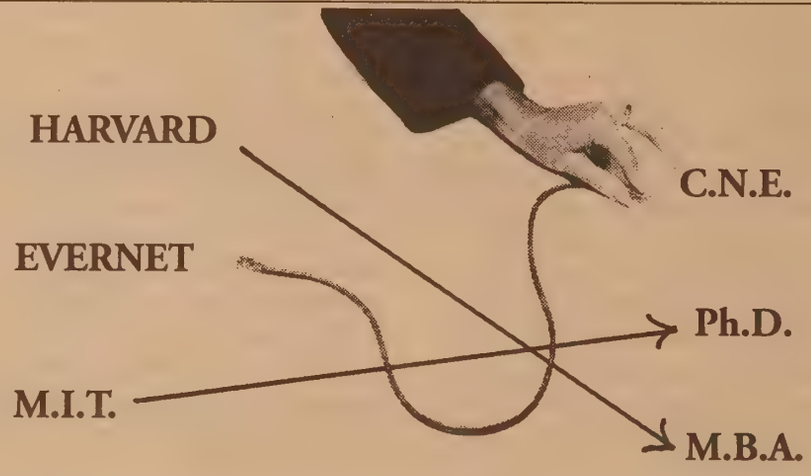

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuters Taking Over?

Newest Statistics Evidence Guerrilla Action

Nearly all of the growth in telecommuters since 1993 has been among "informal" telecommuters who are full-time employees of organizations—telecommuters we often refer to as "guerrillas"—rather than among independent contractors. That's the word from Tom Miller, now VP with Find/SVP but formerly affiliated with Link Resources, where for the past several years he authored that New York firm's widely disseminated numbers on telecommuter populations.

Many people have regularly objected to Miller's rather high counts of telecommuters—as high as 9.1 million in his most recent reports. But there may be an explanation for why other researchers find fewer telecommuters than Miller does.

Most people define telecommuters as those who work someplace other than their regular office during business hours at least one day per week; Miller defines them as people who do so at least one day per month. This significantly lowers the threshold on who can be counted as telecommuters, and thus could easily account for differing tallies by different researchers.

Interestingly, Miller finds only 5.5 million people doing any kind of email or electronic file transfers during the day from home or other non-traditional offices. That means even by his count, some 40% of active telecommuters aren't using computer technology to accomplish their work.

"Hoteling" On The Rise

Staying in a hotel on a business trip is a common experience for many employees. But soon, it may become even more common for employees to work in a hotel room—without traveling to a distant city—in place of a more conventional downtown or suburban office.

Actually, "hoteling" is a relatively new term coined to describe the process of having, say, three part-time or telecommuting employees work at only, say, two desks. The shuffling of schedules to make this acceptable to all concerned is at the bottom of the "hoteling" concept.

"Hoteling" is a relatively new term coined to describe the process of having, say, three part-time or telecommuting employees work at only, say, two desks.

Andersen Consulting, for example, has nearly abandoned it's former strategy of having "trophy" downtown offices and vast quantities of offices and desks to house its employees. Instead, the company began experimenting with conventional "hoteling"—at one time having just over a dozen offices for some seven dozen key employees headquartered at its downtown San Francisco address.

But there's an entirely new trend now arising among corporate employers. They're negotiating leasing arrangements for office space in conveniently located hotels. Their employees use the space for a shorter time than they'd use a conventional office—perhaps only a few months. But that's still a relatively long-term arrangement for hotel managers, and they're eager to gain such a guaranteed boost to their occupancy rates.

By some accounts, desks and chairs at US employers' offices are empty as much as 70% of a normal day's working hours. Cutting back on such waste clearly makes immediate financial sense that managers cannot afford to ignore.

That's why companies are becoming increasingly excited and enthusiastic about the possibilities of setting up offices in hotels for a far lower cash commitment than would be required for similar space and facilities in a conventional office building.

Imagine being able to rent office space by the month or quarter, instead of by the year. Since office building managers are reluctant to make such arrangements, organizations casting around for alternatives have discovered that hotels think a month-long lease is just great.

One prominent example of the trend can be found at Pacific Bell Directory, the organization that concentrates on selling ads in the company's "yellow page" books. Sales representatives routinely blanket a territory, spend some time there selling ads, then move on. It's an ideal arrangement for hotel-based offices.

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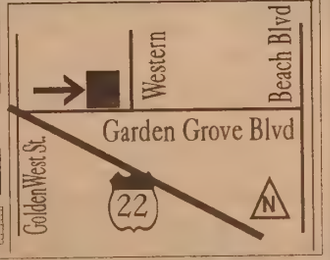

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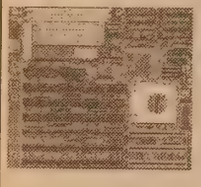

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Telecommuting *continued...*

Pacific Bell Directory negotiated a lease with the local Residence Inn hotel. The company reportedly agreed to occupy twenty townhouse suites every day for five months in a row. As an inducement, the hotel allowed the company to receive calls directly in the rooms instead of having them come through the hotel's operators and switching equipment. Each townhouse includes sleeping accommodations plus a small kitchen and a living room, a corner of which has been made over by the company into an office. The group has its own meeting room, too, to house both secretaries and photocopiers.

The unusual arrangements—combining elements of both permanent and temporary office space—greatly reduce the organization's commitment to bricks, mortar, and office furnishings. It estimates savings from these "part-time" offices at nearly $1 million just in the first year.

At the same time, the "hoteling" gives employees more flexibility in scheduling their time and reduces the distance and time required for commuting. Sales representatives receive complimentary breakfasts, daily maid service, and a grocery shopping service. They also get access to washers and dryers, a swimming pool, and a health club.

Telecommute America

More than a year ago, AT&T planned a national telecommuting day in which a great many highly visible people—all the way up to and including Vice President Al Gore—would eschew showing up in person and instead phone in their activities for the day.

At it turned out, the only telecommuters to take part were those inside the company. But the day proved highly effective for promoting telecommuting within the company.

As a result, the idea survived. The plan for a national telecommuting day was deemed a good one, and it has now taken on new life and new meaning as an exercise in telecommuting practice and demonstration called Telecommute America.

Scheduled for the work week of October 23–27, 1995, Telecommute America (subtitled Discover a New Workplace) is organized as a partnership of public and private agencies led by the Association for Commuter Transportation, AT&T, and three agencies of the US government—Department of Commerce, Environmental Protection Agency, and General Services Administration.

The week-long festivities will be the first-ever nationwide program focusing on the benefits of telecommuting and other nontraditional work environments, and are intended to culminate several months of advance experiences.

Most prominent among the advance activities have been the educational seminars, priced at $150 per person, and scheduled coast-to-coast in locations from Cleveland to Miami, with stopovers in such major markets as San Diego, Los Angeles, and San Francisco. The day-long programs focus on training, but also include delivery of information on local opportunities and resources, plus a binder-full of information and curriculum materials for each participant to take home.

Telecommute America also has an "Infoline"—1-800-TELEWEEK—that offers access to more detailed information about the week-long program, its support activities, and a short telework opinion survey conducted by automated telephone.

The survey asks telecommuters whether they work for themselves

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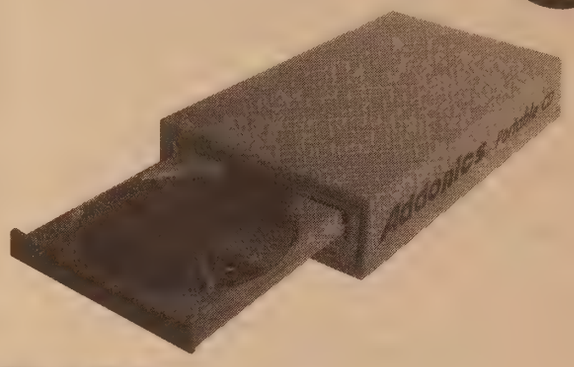

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Telecommuting *continued...*

or an employer, what sort of facility they telecommute from, what equipment they use, and how they perceive telecommuting to have (or have not) affected their personal and professional lives.

The Telecommute America brochure, available on request, is itself a mini "starter kit" for people who'd like to become telecommuters. It contains a variety of useful information on such topics as: definitions of alternative workplaces, winning your supervisor's permission to begin telecommuting, setting up your personal and professional arrangements to support telework, the personal characteristics of successful telecommuters, a brief checklist of job characteristics suitable for telecommuting, selecting and using a telecommuting center, and setting up a safe home office.

The brochure also contains a two-page listing of organizations, books, periodicals, government documents, and even online resources that can be helpful to telecommuters.

Organizers of Telecommute America make no secret about their hope that the program can be a catalyst to help thousands of new telecommuters get started. In fact, one suggestion for those who'd like to support Telecommute America is to organize a "telecommuting day" inside their own organization, and timed to coincide with the dates of Telecommute America.

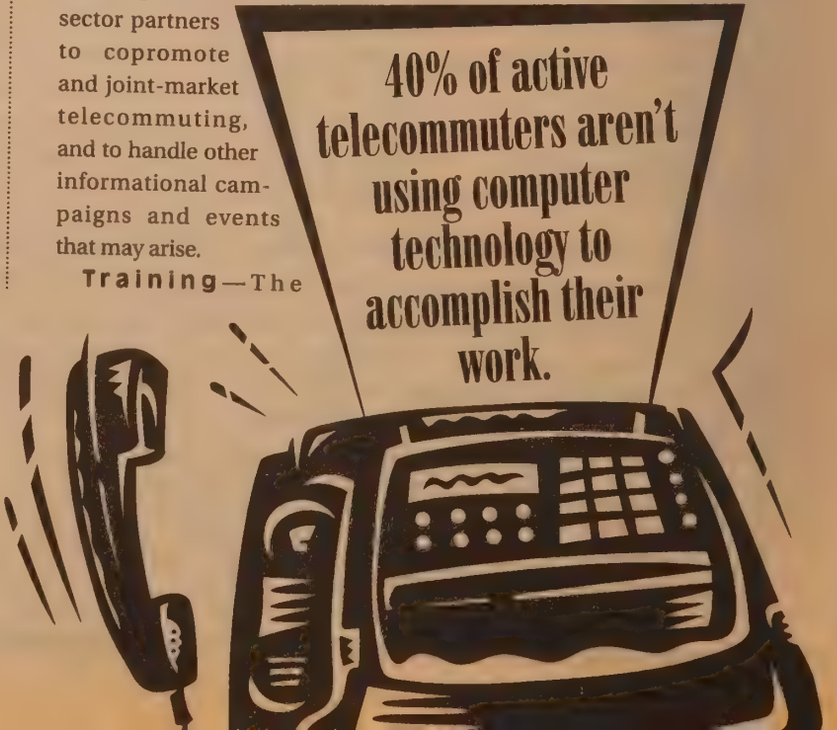
Southern California Partnership Requests Proposals

The Southern California Telecommuting Partnership has accepted bids on four Requests for Proposals, and is now pondering just who will win the contracts.

The four Requests are as follows:

Marketing—The Partnership seeks a marketing contractor to provide a small marketing outreach staff that will deliver telecommuting information, to develop a set of basic marketing materials targeted to likely market segments, to maintain and staff the Partnership's information clearinghouse and 1-800-6INFOHWY answer center, to coordinate with private sector partners to copromote and joint-market telecommuting, and to handle other informational campaigns and events that may arise.

Training—The



Telecommuting *continued...*

Partnership hopes to find a training contractor to develop new self-guided training materials on telecenter and home-based telecommuting, to develop supporting materials for smaller employers, to put together a telecommuting directory to include all resources on telecommuting in the region, to be in charge of offering regularly scheduled training sessions region-wide to educate employers on telecommuting, and more.

Facilities Coordination—The Partnership is looking for a facilities coordination contractor to market and coordinate the placement of telecommuters into telecenters as part of a Facilities Exchange Program.

Research and Evaluation—The Partnership wants a research and evaluation contractor to develop a regular "State of Telecommuting" report, and to evaluate and report on the results of other Partnership activities.

Don't bother to apply. By the time you read this, the deadline will be well past. But it's important to know that progress is being made—albeit slowly—in creating a viable support structure for the growth and development of telecommuting.

As contract winners are announced and programs are put in place, you'll hear all the good (and bad) aspects of it right here.

By some accounts, desks and chairs at US employers' offices are empty as much as 70% of a normal day's working hours. Cutting back on such waste clearly makes immediate financial sense that managers cannot afford to ignore.

Panasonic Cordless/Fax Phone Answerer

Continuing the trend toward technology aimed a telecommuters, Panasonic now offers an unusual fax/cordless telephone and answering machine combination that seems well designed for those trying to accomplish business purposes at home.

The KX-F390 is the world's first fax machine to be combined in one chassis with both an answering machine and an advanced-technology 900MHz cordless telephone. Like most fax machines, it will also make copies.

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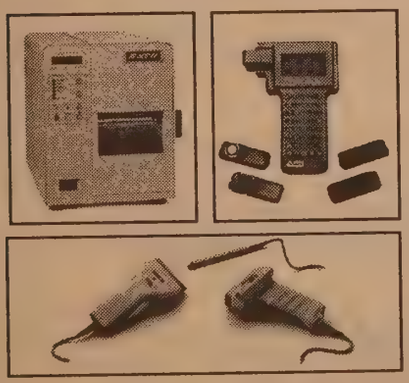

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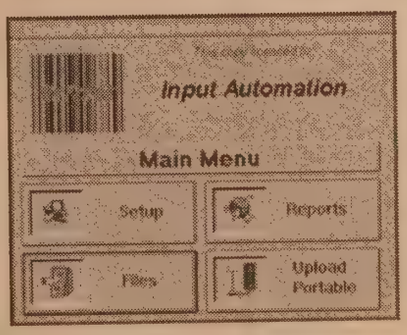

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Telecommuting *continued...*

The 900MHz cordless telephone looks like a flip-type cellular phone. With thirty channels to choose from, the device automatically picks the clearest one for each phone call. There's a built-in ninety-two-name telephone directory capable of searching for a person you want to call, then dialing his or her number automatically. The handset also has controls for the fax machine and the answering system, so you can make things happen from a lawn chair as easily as from your desk chair.

The fax portion of the machine can handle documents as large as 8-1/2" x 23-5/8", and can automatically reduce the size of incoming documents to handle larger originals sent to you, or to save on paper costs. One neat idea is that the machine can print "Urgent," "Confidential," or "Urgent Please Read" on outgoing documents. Another is its "curl reduction" technology that reduces the tendency of fax paper to wind itself into a tight spindle as you near the end of the roll.

The answering machine stores your outgoing message on a chip instead of a tape. It allows for easy "memo" recording so you can leave voice messages for others who use the machine. It distinguishes between fax calls and voice calls, and can silence the usual ringing noise on faxes, if you wish, while putting voice calls through normally. You can also set the machine to answer both fax and phone calls at certain times, but only phone calls at others.

With a list price of $1149, this one machine can cover most of your telecommuting telephone requirements—and a good deal more. ■

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RESOURCES:

Telecommute America
1-800-TELEWEEK
http://www.att.com/Telecommute_America/

KX-F390
Panasonic
6550 Katella
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CPU MHz & SPEED: ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE: ○ PCI ○ VLB ○ EISA ○ ISA

CACHE: ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI ○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI ○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+ ○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

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VIDEO CARD RAM: ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp ○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

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PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

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Experts Right Out Of The Box

Business Planning And Legal Software For The Small Business

I found out this week that specialized information software really can be useful.

It had always seemed to me that you could do better by paging through a book, using scraps of paper for bookmarks, than you could by having some program search for you.

This attitude is just wrong, I find: A well-designed information program can hold your hand as you walk through the search. It can also direct you to things you have not thought of looking for.

When you must produce a result—some sort of document, for instance—that handholding can go much further. The product tells you that you need to know something—and then it helps you find it. Or it says you must write something down, and then helps you with questions and examples.

My conversion came from trying out two specialized programs, both of which are designed to help a small-business owner through particularly difficult times in business life. One is the moment you need legal advice. The other is the day you must make a business plan.

My Kingdom For A Plan

Business plans are not just something you cobble together when you want to apply for a loan. They are instead a tool to determine where you are going, and to measure how far you have gotten.

"OK," you say, "interesting," and you turn back to your tasks. Life is too short to spend on things like business plans.

Gentle reader, you may change your mind after you see Palo Alto Software's Business Plan Pro. It makes the purposes and means of business planning clear (and accessible) to those of us who may have stumbled into small business.

I read much of the manual in one long bus ride from downtown San Francisco. I discovered that Business Plan Pro is not so much a piece of software, as it is an idea with software support. The idea is to get your assumptions about your business clear enough so you can check them against reality. The software is a pleasantly designed package in support of that task.

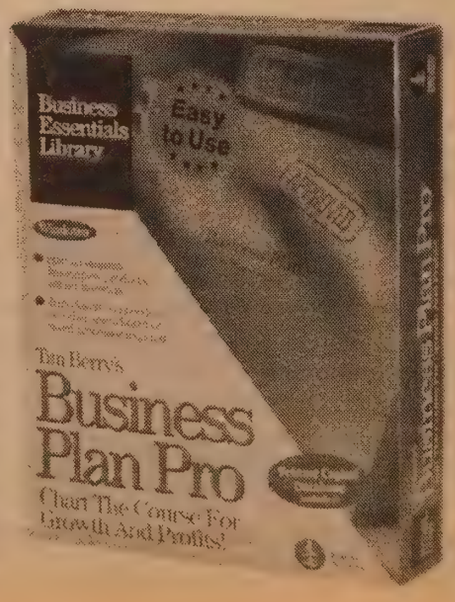
You can use Business Plan Pro to evaluate an idea before you start it—to look before you leap. If you have already leapt, it can give you some idea of where you have landed.

Very near the beginning of the process you are asked to say what your business is about—your mission statement. If you scratch your head and wonder what that really means, Business Plan Pro has provided two helpful aids for this and every piece of writing you need to do—definitions, and examples.

"The mission statement is like a business charter. It should summarize your business goals, your business offering, and your target market. What are you selling, and to whom? Why?" This is the definition that Business Plan Pro gives you.

If you prefer, you can click a little radio button, and the definition is replaced with an example: "Acme Widgets is a manufacturing company dedicated to developing better widget solutions for widget users who can't get what they need from the mainstream widget manufacturers. We intend to make enough profit to generate a fair return for our investors and to finance continued growth and continued development in quality product. We also maintain a friendly, fair, and creative work environment, which respects diversity, new ideas, and hard work."

This definition-and-example strategy is followed with all the text items you need to write. While the definition or the example is open, there is also a text box for you to write your company's statements. Business Plan Pro asks a lot of questions, but it helps you to answer them as well. When you begin a new business plan, it asks you if you are planning a service, retail, distribution, or manufacturing concern. Are you going to sell only for cash, or extend credit? Are you a business-in-progress, or is this a startup? Are you using a home office? Your responses to these queries determine what further questions the program will ask you.



Useful as it is to have a guide to writing, Business Plan Pro is more than a specialized word-processing program. It also has a family of small spreadsheets. These allow you—should I say "force

continued on page 53

BINOMIAL SYSTEMS

BINOMIAL SYSTEMS, INC.
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EtherExpress 16 PRO/10 16 Bit Combo	139.00
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COGENT DATA TECHNOLOGY

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100B-FX Fiber Downlink Module	959.00

NETWORTH

FastPipes Switch 6Port 10TP w/ 1 Slot 100 TP	3,599.00
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* All Netware OEM Softwares Must be Purchased With Network Card or Network Hub *

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For Novell Netware 3.12 or 4.1

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17 Port Ethernet 10 TP & 1 BNC Hub	269.00

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LM-P 66 w/16MB (D2993A)	$5,199.00
LM-P 90 w/16MB (D2997A)	$5,999.00

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*NetServer HD is Optional

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PENTIUM-100	$1,959.00
PENTIUM-90	$1,799.00

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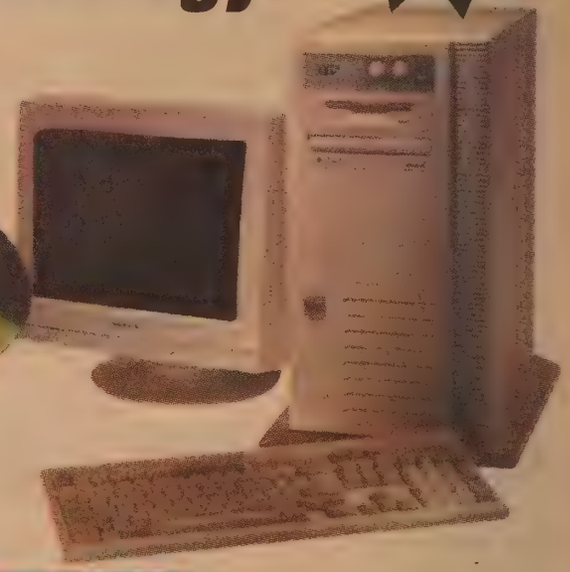

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- Intel Triton Motherboard
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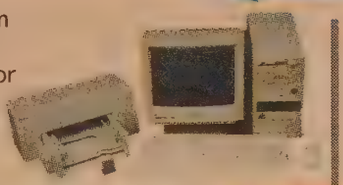

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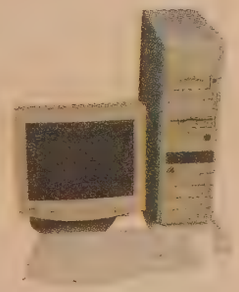

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Small Office/Home Office *continued from page 48*

you"?—to make explicit those assumptions on which your business rests.

One of them asks whether you do all your business in cash, or if you bill people. How long does it take them to pay? How long do you have to pay your bills? What does cash cost you if you have to borrow it? What does it cost you to employ someone, beyond what you actually hand them in their paycheck?

Some of the most useful information in the package is in the appendices to the manual: material about the government resources that have been available and may still be through the Small Business Administration and state agencies; information about how to find venture capital, and useful caveats about people who charge to help you find money.

One appendix entitled "Starting a business" tells in a few pages what many of us have sweated and wept to learn. For instance:

"The myth of 'being your own boss': you are not your own boss when you own a business. Your customers are your boss. Your bank is your boss. Your fixed costs are your boss..."

"The myth of independence: owning a business doesn't make you independent—not needing money makes you independent. As long as you need money you can't be independent."

Ah, yes.

When you have finished with the questions and filled in all the blanks, you will have a rough business plan.

The program has only an ASCII word processor, so it will not make a finished and formatted business plan with all the typefaces you may wish to use. It will produce a group of charts you can embed in a document, and a text file you can import into a word processor for further embellishment. You can print out drafts of text, or of charts, or of both from within Business Plan Pro.

The program worked well, but it was a royal pain to install. Fuming, I called the company's home office at five o'clock sharp. I was mollified when a woman named Janie—she claimed she is not part of the help staff; she just made the mistake of answering the phone instead of heading for home—talked me around the installer for a by-hand installation. She saved the company's reputation on her own time, and will surely be given a raise.

Using the program is a lot like taking a class. It will not do the work for you. It does ask you to do most of the thinking—but you want to do that anyway. What it does do is to provide you with the questions and tools you need to make a business plan to guide your enterprise. If you know nothing about business jargon, it will teach you some accounting words and concepts. You will need them to talk about what you are doing in the language a bank or a potential investor will understand.

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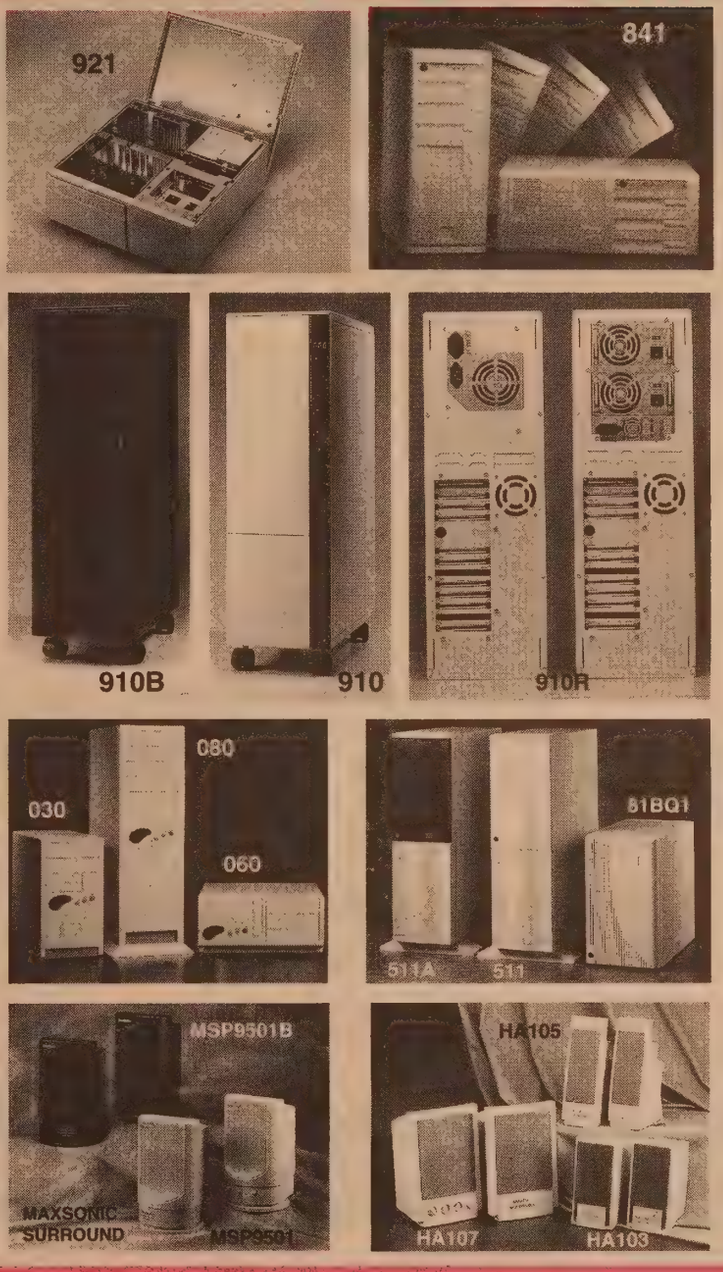

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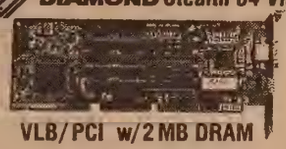

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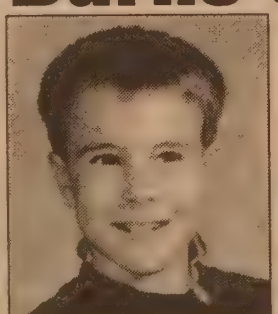

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to ask intelligent questions and to understand the answers. That's my definition of an education. Now they are bringing to Windows software what they have long offered in print. Nolo's Legal Guide for a Small Business takes up only two megs of your hard disk, but it packs a lot of information into that space.

The information is indexed and outlined. In fact, it looks as if someone has used the technology we see in Windows Help to build a full free-standing program. It has hypertext in the familiar green text, some illustrations, and a search engine to find topics. If you have a lot of information to distribute in your profession, you might want to buy this program to use as a model.

What I find most appealing, beyond the obvious competence of the author, is the breezy style of the writing. Without being cute the author has made the law palatable.

When I looked up "Home Based Businesses" I found several subheadings. One was "Taxes." Click, and I was there. Author (and attorney) Fred Steingold treats us to many screens of clear and careful definitions of what is and what is not a deductible home office.

The IRS requires (it says here) that you use that part of your home "exclusively and regularly as your principal place of business, as a place to meet or deal with customers, clients or patients in the normal course of your business, or in connection with your business if you're using a separate structure (such as a garage) that's not attached to your house."

What does all that mean? Steingold has given examples for almost every word of this definition. He talks about a den where you prepare legal briefs and tax returns but also watch TV and play poker (not deductible). A salesman who spends thirty hours a week working at home has the home as his principal place of business (deductible, probably); but if a plumber spends ten hours a week in her home office and the rest of the time in the field the home office is not deductible, because it is not her principal place of business.

If you ask someone to write you a piece of business software, are they an employee or are they an independent contractor? I went to the index and looked up "employee." A quick zip through the employee-related topics and I found "employee vs. independent contractor." Click, and there is information about tax rules. It says here that the IRS decides a person's status by the amount of control you have over the worker. "Basically, if you con-

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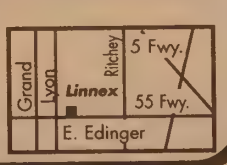

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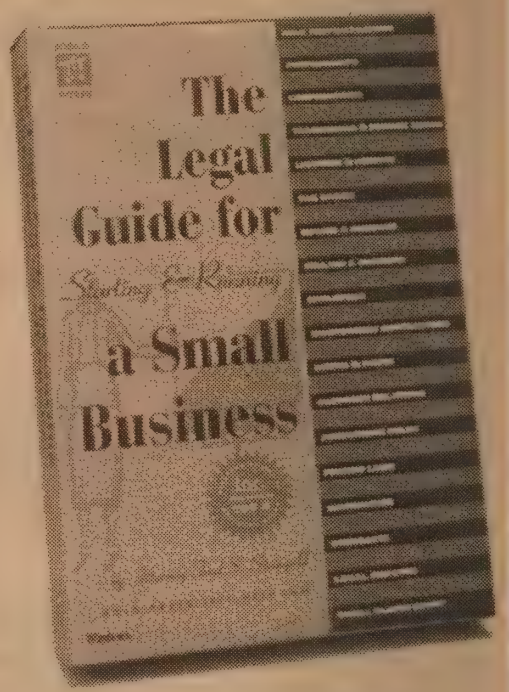

trol—or can control—not only what is to be done but how it's done, the worker is an employee... The IRS doesn't care what you call the relationship. You can designate someone as a partner, co-adventurer, agent or independent contractor. But if the person really is an employee, the IRS says that is how you must treat the person." There follow two lists—one of fifteen factors that tend to show a person is an employee, and another of nine indicators that someone is an independent contractor.

There are further references at the end of each chapter, in case you want to read more on a topic. There are also legal citations as hypertext footnotes, so you can research a case in depth.

As you read the detailed and clear text, the convolutions of the law begin to make some sort of sense. Or at least as much sense as they are likely to ever make.

This accessibility does not mean you are going to spend your free evenings browsing through the Nolo Guide. It means that you have quick help if you need it, a first approximation of an answer to legal questions when they come up. Unless you have a cousin who is a lawyer, you can save more than the $24.95 cost of the product the very first time you look something up. In fact you could probably buy six copies and still save money. ■

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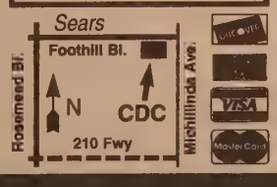

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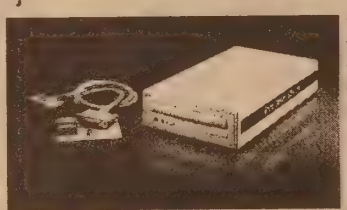

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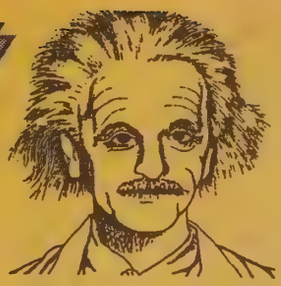

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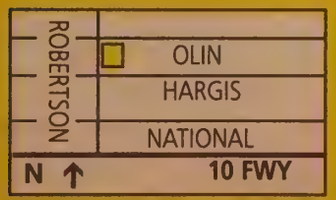

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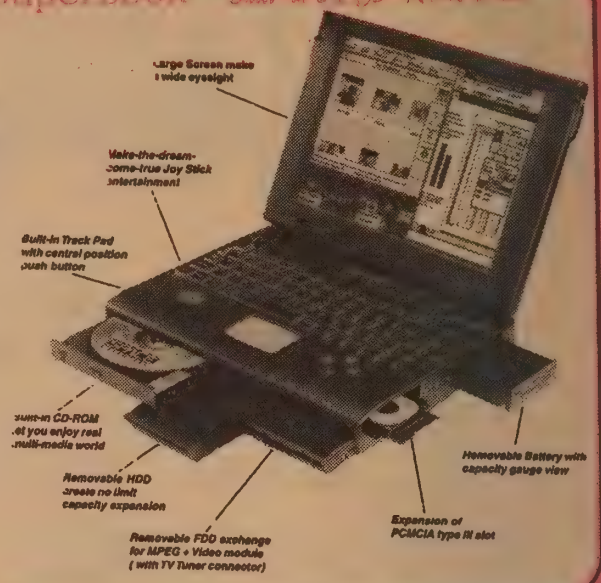
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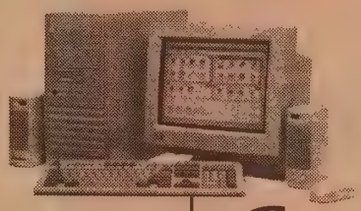

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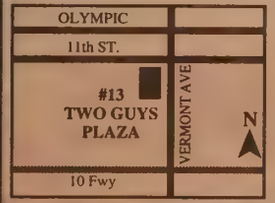

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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Gender On The Internet

The Imbalance Is Overrated

Several months ago, we reported in this column (in "A New Estimate of the Sizes of the Internet and the Matrix") that "It appears the male/female ratio among Internet users is less than 2/1, that is, about 60/40 male/female." Let's look at that ratio more closely.

The source of the data is the Second MIDS Internet Demographic Survey of October 1994, for which we received 1468 usable responses out of a universe of 13,302, for about 11% responding. For copious notes on how we conducted the survey and checked it for representativeness, see *http://www.mids.org/mids/pressgen.html*, or send mail to *mids@mids.org*.

Basically, we sent a questionnaire by electronic mail to essentially every organization on the Internet, we collected responses by electronic mail, and we then projected the composite results to the Internet at large. Our survey was worldwide, and used the Internet itself; thus it included, but was not limited to, the United States.

Let's look at gender for both the US and for the world, as shown in Table 1.

Table 1, Gender on the Internet, World and US, October 1994. With 95% level of confidence:

	male	female	responses	margin of error
World	63.3%	36.7%	1468	+/-3%
US	54.2%	45.8%	643	+/-4%

As it happened, this was the *least* popular question on the survey form. We got the most comments about it (people thought it was too nosy) and the fewest responses. Nonetheless, we got more than one thousand usable responses to it. That means that we can assert with a 95% level of confidence that the male/female ratio is correct within a 3% margin of error worldwide. Since the US responses were a subset of the worldwide responses, there were of course fewer of them, and their margin of error is 4%.

Why do we give margins of error and a 95% level of confidence for these gender numbers, but not for host and user estimates derived from the same data? Because the gender numbers are ratios of a kind appropriate for the concept of margin of error, while the size estimates are extrapolated totals, which are more susceptible to perturbation by outliers.

The 9:1 Myth

We have seen elsewhere a hypothesis that the ratio of male to female Internet users is 9:1. We consider our results to have statistically proved that hypothesis to be false. The real ratio is closer to 2:1 or even 3:2.

The US figures differ from the world ones by more than the margins of error, so it appears there is a real difference in the proportion of women on the Internet in the US vs. worldwide. This isn't surprising, since the Internet started in the United States and many new features of the Internet, such as commercialization, start first in the US.

One reason the Internet gender ratios are so balanced is all those students in universities. What if that's the main reason, and only the educational part of the Internet has a balanced gender ratio? Let's look at the numbers for educational and commercial responses in Table 2.

Table 2, Internet Gender Ratios: Educational and Commercial, Oct. 1994. With 95% level of confidence:

	male	female	resp.	margin of error
World	63%	37%	1468	+/-3%
educational	58%	43%	217	+/-7%
commercial	68%	32%	589	+/-4%
US	54%	46%	643	+/-4%
educational	51%	49%	88	+/-11%
commercial	56%	44%	284	+/-6%

Please note that we really do mean educational and commercial, not just within the domains EDU and COM. For example, organizations under AC.UK would likely be counted under EDU. And so would universities in France, which has no educational vs. commercial subdomains. We determined whether an organization was commercial or educational by asking on the questionnaire. For the US responses, the division is mostly the same as for EDU and COM, but there are still some organizations under US, NET, etc. that we also accounted for as educational or commercial.

The margins of error in Table 2 for the educational and commercial subsets are of course still larger than the ones we saw in Table 1, since the number of responses for the subsets was smaller.

The educational gender ratios do show more women proportionally than on the Internet at large, both in the US and worldwide. The difference in percentages is within the margins of error, however, so the difference is not terribly significant.

The commercial gender ratios show more men proportionally than on the Internet at large, once again both in the US and worldwide. And again the difference is not large. For the US it is within the margin of error. For the world, it is on the edge of the margin of error.

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Internet *continued...*

Nonetheless, we do see this phenomenon of higher ratios of women within academic subsets and lower within commercial subsets when we examine subsets for almost any country with a reasonably large set of responses, so we tend to think the phenomenon is real. We also see that even the overall worldwide commercial ratio is not anywhere near 9:1 male:female; actually, it's only a little more than 2:1.

These numbers are all for October 1994, and many more people have joined the Internet since then. We would expect the proportion of female users has increased, and we will be attempting to measure that later. However, we expect the ratios are still similar today to those given above.

O'Reilly's Poll

Meanwhile, we see that O'Reilly is advertising the results of a telephone survey of five hundred people in the US, for which they claim a 66:34 male:female gender ratio with 5% margin of error and 95% level of confidence. O'Reilly's 34% female proportion is somewhat lower than our 36.7% for the world. However, the 2.7% difference is within either their 5% margin of error or our 3% margin of error. This is actually somewhat surprising, since we understood their survey to be of the US. Their figures differ more from ours for the US, by (45.8 - 34 = 11.8%), which is outside either margin of error, or both combined (4 + 5 = 9%), for that matter, although only by about 3%.

It appears there is a **real difference in the proportion of women** on the Internet in the US vs. worldwide. **This isn't surprising,** since the Internet started in the United States and **many new features** of the Internet, such as commercialization, start first in the US.

This deviation could be due to an actual decrease in the proportion of women on the Internet in the US between fall 1994 and summer 1995 (which is conceivable, although the opposite of what we would expect). Or, if their poll was actually of a random sample of the US population, the number of their respondants who were on the Internet must have been small, and thus their results would be less accurate. Whatever the cause of the deviation, the more interesting feature is that two surveys conducted by such radically different methods produced such similar results. We consider O'Reilly's results to be yet more confirmation that our methods are sound and our estimates are reasonably accurate.

A detailed report on our results from October 1994 is available now from MIDS. We will also be conducting another survey starting in September, to complete in October 1995.

One thing for sure is that the male:female ratio for the Internet is not 9:1, nor even 3:1, as has been reported elsewhere. It is closer to 2:1, and for the US is even approaching 1:1. ■

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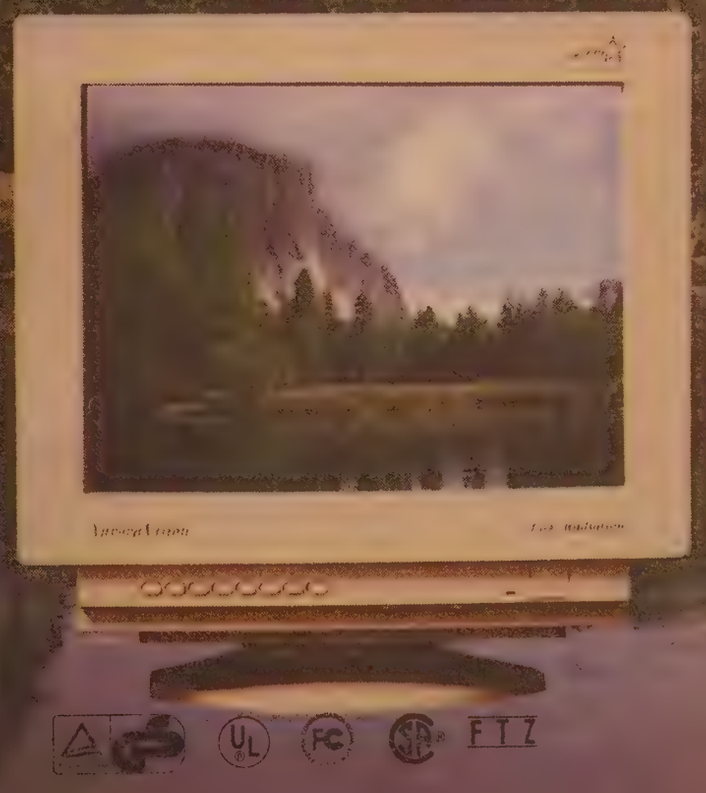

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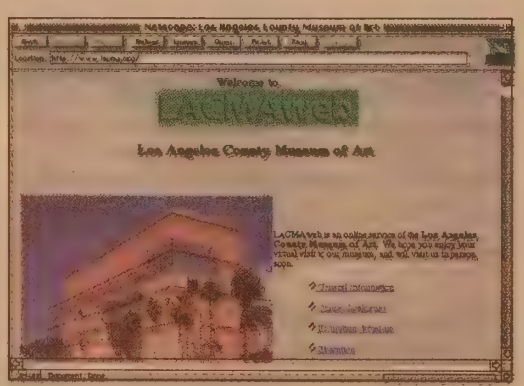

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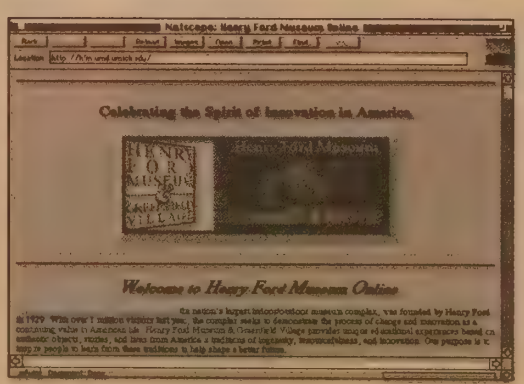

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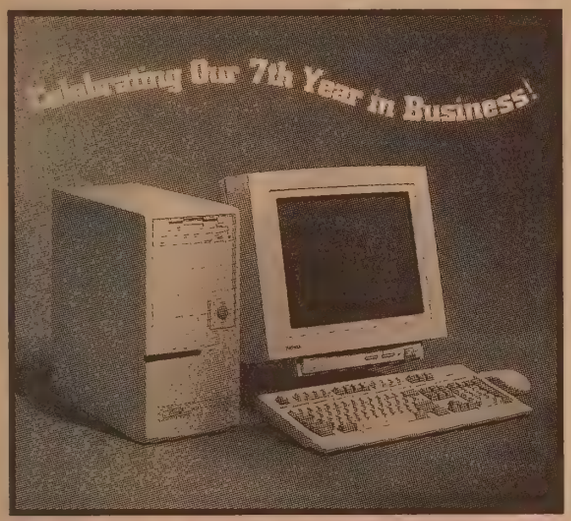

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Business equipment leases are available, OAC. Please ask for details. LEASING

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Make Sure You Get The Computer System You Paid For!

We suggest that when you are shopping for a new computer system, you watch out for the following problem areas:

CPUs: Some 75MHz Pentium Processor systems are being sold as 90 or 100MHz systems. Unscrupulous vendors are REMARKING the 75MHz Pentium chips as 90 and 100MHz. We have been approached to buy such remarked processors. We refused. The would-be supplier's response, "Well you are about the only one that's not using them. All your major competitors are!" Vendors that use these remarked CPUs set the jumpers on the motherboard to boot up the system at 90 or 100MHz. As a result processor reliability is jeopardized and, of course, you're being charged for something you're NOT getting.

Memory: Watch for USED memory. A good indicator is mixed brands of chips on the SIMM module(s).

Video Cards: Check the type of video card and make sure you're getting a local bus (VL-Bus or PCI) SVGA video card. Some vendors slip in an ISA (16-bit) SVGA card—sometimes with less than 1MB of memory. Likewise, watch for DRAM being used instead of the VRAM on the high-end cards. Compare only the same brand and model card.

Hard Drives: Make sure you ask whether the hard drive is new or REMANUFACTURED (ie., used and rebuilt). Also look for enhanced IDE drive (EIDE). They are much faster than non-EIDE if you have the corresponding hard drive controller. Without that controller they are no faster.

Motherboards: There have been cases where people have purchased VL-Bus or PCI systems only to find their computer equipped with less expensive, outdated ISA motherboards (and cards).

Legal Software: Even with all the policing being done by software makers, many new computers are being sold with illegal copies of DOS, Windows and other programs. You won't find this out until you try to call the software supplier for support. Be sure, you get proof that your software is legal. Unscrupulous sellers can save almost $100 by using illegal copies of DOS and Windows. If you don't receive disks and documentation (including the Certificates of Authenticity), demand them—or that the illegal software be removed. There is no title transferred for pirated software. If someone is offering you $100s of dollars of software, with no disks or documentation, you can be sure that software has been pirated. Pirated software hurts all computer user — by depriving legitimate suppliers of their revenue and in turn forcing everyone to pay more for new products and upgrades. And obviously, you have nothing to prove ownership when you want to upgrade. If you want to report a suspected software pirate, call Software Publishers Association at (800) 388-7478.

Here today, gone tomorrow: Vendors just seem to drop off the face of the earth. If you purchased a computer from them your support is the phone company's message "That number is no longer in service." Make sure the company you buy from has been in business for more than a year or two. Service and warranty are lip service if the seller isn't around to provide the service. Other than for hard drives, it is almost impossible to get warranty service on defective components which are not returned for repair or replacement through the retailer.

FCC Class B certification: The Federal Communications Commission (FCC) requires that any system which can be operated in the home and most offices (i.e. ALL the systems you see at local computer shows and in the computer stores) MUST have been tested for electrical interference, had the test data submitted to the FCC, and had a certificate of compliance ("grant") issued by the FCC before such a system can be marketed (advertised) or sold. Failure to comply can result in a $70,000 fine per system otherwise marketed or sold. If you don't see an FCC ID # on the back of the system unit, it is illegal—period. The FCC regulations are to help avoid PC-generated electrical interference which may affect TV and other communications equipment. FCC class A systems are NOT legal for the home or office environment.

With some system vendors, you don't get what you pay for. Rather you receive inferior, used or illegal components. It is definitely a "buyer beware" market out there. If you see a computer advertised at unbelievably low prices, then the supplier may have used one or more of these fraudulent "approaches".

The profits on new computers are paper thin. This means that you can't buy directly comparable computers at big savings. If someone's price is more than 10% below our price for a system with directly comparable specifications (i.e. same component manufacturers and product models), the odds are that the vendor is cutting corners somewhere. You get the result (or lack thereof).

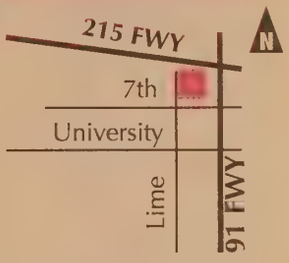
If you are tempted by unbelievably low prices, just remember that those prices may be the result of corner cutting somewhere in the hardware, software, or both. As a consumer you deserve to get what you pay for. Demand it or shop elsewhere! When in doubt,

Buyer Beware!

If you'd like to avoid the noted "problems", please give us a call. We'll quote you solid, good performing, reasonably priced, professionally assembled and tested systems with one of the best warranties in the local area. The bottom line — if you buy a system from us, you'll get what you paid for and you'll get a reputable company with nearly eight years of experience to stand behind it.

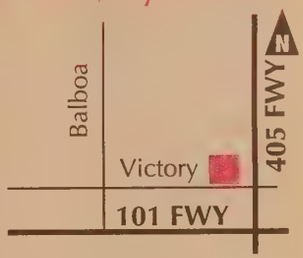
MARS COMPUTERS

Riverside Office



3600 Lime St, Suite 315
Riverside, CA 92501
Phone: (909) 274-9698
Fax: (909) 274-9725
Days/hours of operation: M-F, 9:00-5:30

Van Nuys Office



16209 Victory Boulvard,
Van Nuys, CA 91406
Phone: (818) 785-7608
Fax: (818) 785-7634
Days/hours of operation: M-F, 9:00-5:30

Cypress (Main) Office

6481 Global Drive,
Cypress, CA 90630
Phone: (714) 821-9590
Fax: (714) 821-9593
Days/hours of operation: M-F, 7:30-6:30

BETTER BUSINESS BUREAU Pledged To Arbitrate

Ad code: MT091895

Online Guide

Web Page Listings *continued...*

nical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Cyno Technologies *http://www.cyno.com/cyno/* Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

Demand Systems Home Page *http://www.fishnet.net/~drumbra* Demand Systems sells computer software and hardware. They also carry the Jaguar and Lynx. [Exp. #146.]

DHL Worldwide Express *http://www.dhl.com/* Provides information on shipping services offered by DHL for all of the 217 countries that the DHL network serves. [Exp. #146.]

Digital Conversion Technology *http://navishow.ans.net/lab/m/mtownes* Sales, bids, quotations, and proposals. We search and deliver—you produce and sell. [Exp. #146.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

Disinfectant 3.6 *ftp://ftp.acns.nwu.edu/pub/disinfectant/disinfectant36.sea.hqx* The new release of the free anti-virus utility for the Mac. Recognizes new clone of nVIR B. [Exp. #142.]

eCesys, Inc. *http://www.alaska.net/~ecesys* Low-cost Pentium Systems optimized for NEXTstep, Win 95, and WinNT deployment. [Exp. #146.]

EIO: Electronics Information Online *http://www.wio.com/* A super surplus store. We buy and sell excess, discontinued, new, and used electronic components and computers. [Exp. #146.]

Endeavour Travel *http://www.anzac.com/endnb/endvr.html* Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

FaxBox Network *http://voyager.via.net/netbiz/faxbox.html* How to have your own fax-on-demand box and make money. [Exp. #142.]

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Galt Technology Shareware Zone *http://www.galttech.com/* The leading site for quickly and easily downloading the latest shareware from the Web. [Exp. #145.]

Genoa Technology's Web Site *http://www.gentech.com* Testing solutions for Printer Emulations, Facsimile (T.30), IrDA (Serial Infrared), IEEE 1284, and SNMP. [Exp. #146.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging Consumer Computing Device market. [Exp. #145.]

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #145.]

Greek Hotel And Cruise Reservation Center *http://www.deltanet.com/bazaar/greece.htm* Your link to over eight thousand Greek Hotels and Cruises covering the Greece mainland and islands. [Exp. #146.]

homepage.html *http://www.hooked.net:80/users/tpitre/homepage.html* Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Homes For Sale On The Internet *http://www.he.net/~bsonder/homes.html* Have some real estate to sell? Want to increase your audience? Advertise with Homes for Sale on the Internet. [Exp. #146.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

Iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

Instant $avings BBS *http://www.liberty.com:80/home/couponbbs/Welcome.html* A free BBS soon to have free Internet email and a home-based business opportunity. [Exp. #146.]

Intelligent Media *http://smartworld.com/intmedia* Full-service interactive multimedia production company, service bureau. [Exp. #141.]

International Consulting *http://www.insist.com/* Build a strong distribution/OEM channel in Europe. Fluent in German, French, and Dutch. Set up branch offices in four weeks. [Exp. #146.]

Investigative Resources *http://www.lainet.com/~factfind* The online brochure of Investigative Resources International, a full service southern California investigative agency. [Exp. #145.]

Kaua'i Exotix *http://planet-hawaii.com/~exotix/* A small tropical flower business in Kaua'i doing all of our business via the Internet. [Exp. #144.]

LinkStor Home Page *http://www.linkstor.com* PC network and storage reseller in Silicon Valley. [Exp. #143.]

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer and publisher of interactive entertainment and educational software. [Exp. #145.]

Marine Jewelry By Robert Straight *http://www.stw.com/rls/rls.htm* Ocean life rendered in fine gold jewelry. [Exp. #142.]

Maxsoft-Ocron, Inc. *http://www.maxsoft-ocron.com* Maxsoft-Ocron, a leader in OCR software and Toolkits. Visit us and download Wordlinx free. [Exp. #146.]

Midnight Special Bookstore Home Page *http://msbooks.com/msbooks* Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: It is a weapon." [Exp. #141.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Miniman *http://www.mindifarm.com/midiman* Midiman's Web site consists of over twelve pages of product and company information, and an ftp site for files. [Exp. #146.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store, movie memorabilia store [Exp. #145.]

Music Boulevard *http://www.musicblvd.com* A one-stop service where customers can listen to 30-second sound samples, view album art or artist photos, read reviews or biographies, and buy from an extensive music catalog. [Exp. #146.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% non-toxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

Newer Technology *http://www.newertech.com/* Supplier of Mac peripherals and memory products. Grouped into four categories: acceleration, connectivity, memory, and PowerBook accessories. [Exp. #146.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

O'Keefe World *http://www.okeefe.com* O'Keefe World is a full-service advertising agency. Bandwidth busting graphics. Idiotic image maps. All style, no substance. [Exp. #146.]

Online Islamic Bookstore *http://www.sharaaz.com* Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

Pacific International *http://www.pacintl.com/pacintl/* Specializing in Japanese/English internationalization (bid or contract). We are multi-platform capable. [Exp. #146.]

Palookaville Hats *http://www.primenet.com/~hanibal/hat.html* Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

PCTravel *http://www.pctravel.com or http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

Photo Restoration, Retouching, & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Recorter, Inc.'s Business Center *http://www.industry.com/* Industrial rack mount computers, enclosures, keyboards, monitors, and printers. Web site includes descriptions and data sheets. [Exp. #146.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe Series*. [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Safeware, The Insurance Agency, Inc. *http://www.safeware-ins.com/* Insures computers against theft, fires, power surges, accidents, natural disasters, and earthquakes. Review details and apply. [Exp. #146.]

Salsa Express *http://www.stw.com/se/se.htm* Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

Secret Staircase Bookshop *http://www.secretstaircase-*

Old MacDonald Had a WebFarm, E-I-E-I-O

With a Web Space Here and Web Server There, Here a Space, There a Space, Everywhere a Web Space!

InterNex is proud to announce their newest offering - WebFarm. With WebFarm your business now has three exciting World Wide Web hosting solutions.

At InterNex, we can quickly deliver some of the largest Internet backbone bandwidth available anywhere today. And, with an impressive list of features and benefits, the InterNex WebFarm becomes the most cost-effective solution for businesses ready to develop a global presence on the Internet.

By placing your, or your customer's, Web Site at our facilities you gain the technical expertise of a team of engineers and 24 hour monitoring of your site. You also save the expense of installing your own high speed telephone lines and ultimately eliminate the potential bottleneck of calls to your server. Upgrading access to your site and needed disk space becomes a snap. You can even select the server environment of your choice. Experience the difference. InterNex.

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Take advantage of shared resources at InterNex's Regional Operation Center. You'll receive dedicated disk space, bandwidth, and priority access to your site.

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We now offer a pre-configured and maintained server of your choice at our site. Take advantage of our 10Mbps backbone to the Internet and have plenty of disk space to grow. Highly secure and plenty of bandwidth make this option ideal for customers needing flexibility and convenience for their Web site.

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Place your physical server at InterNex's Regional Operation Center and connect to our 10Mbps high-speed Ethernet backbone. Supports multiple server environments. Locked cabinet and secure environment.

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http://www.internex.net

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InterNex was the very first, and is the largest ISDN Internet Access Provider in the Bay Area. Our network of Certified InterNex Resellers help small to medium-sized businesses do business on the Internet. Our solution partners include leading companies Ascend, Cisco and Pacific Bell, among others. InterNex provides a one-stop shopping solution for hardware, software and service for businesses eager to get their business on the Internet.

We offer

- *Digital Internet Access with ISDN and Frame Relay*
- *WebFarm℠ - Web Site Hosting and Co-Locating*
- *Telecommuting, Remote Access and Private Network Infrastructure*

Your business card is your business signature. An email address and URL (Your Web Site address) will show your commitment to new technologies and that you're doing business on the Internet. Businesses on the Internet are discovering new ways to promote their business through electronic catalogs, new marketing and sales channels, EDI, and business to business communications, allowing them to save time and money, and increase productivity.

We've got the Bay Area covered with the largest digital network for local Internet access. And, with a network of Certified InterNex Resellers ready to provide you a total solution to connect your LAN or PC to the Internet, you'll be up and running in no time. No hassle. See our list of Certified InterNex Resellers for a dealer near you.

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Santa Clara, CA 95051
info@internex.net
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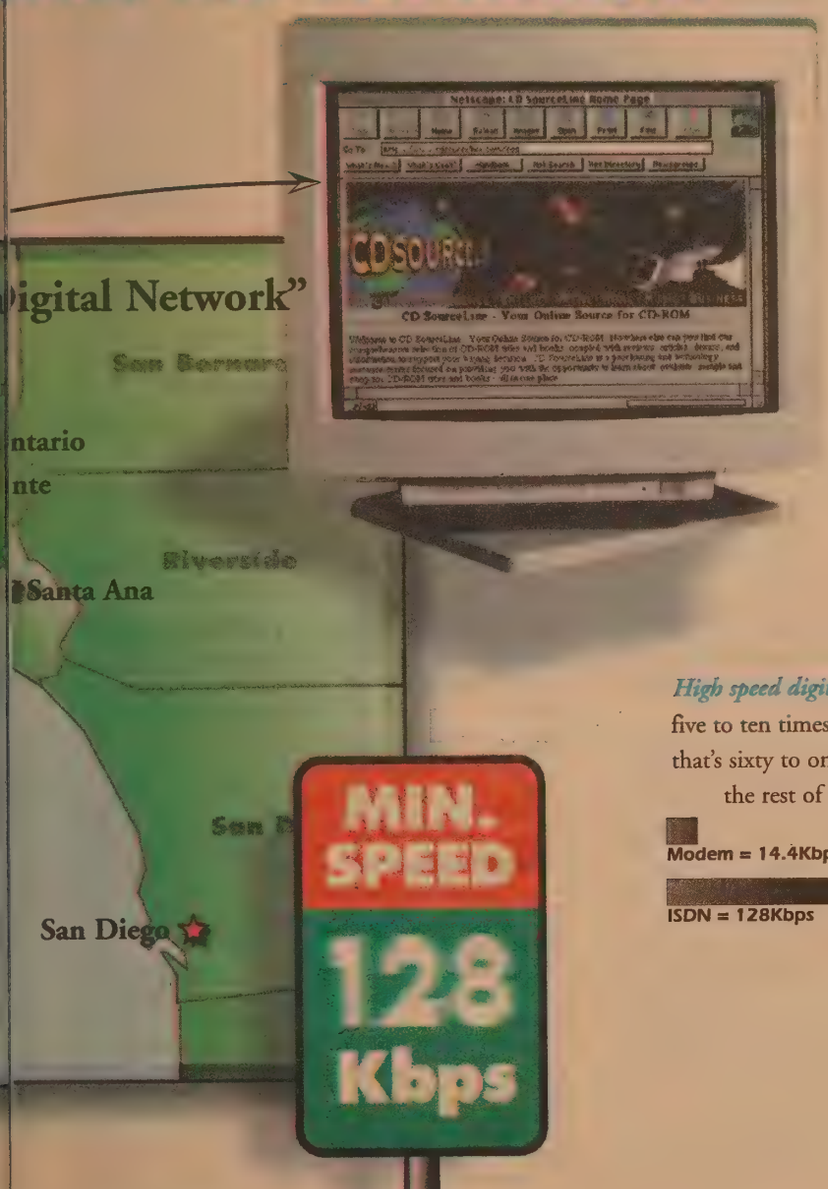

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High speed digital Internet access features speeds of 128Kbps and higher. For ISDN, that's five to ten times faster than a standard 14.4 or 28.8 analog modem. With Frame Relay, that's sixty to one hundred and twenty times faster! With multiple 10Mbps connections to the rest of the world, your business site will have high visibility, high bandwidth and low latency. And, for those of you who are tired of crawling on the World Wide Web, take advantage of our ***90 Day Money Back Guarantee**** and see how fast you can really go.

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Authorized Sales Representative

CommerceNet
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90 day MONEY BACK GUARANTEE
*service only

Online Guide

Web Page Listings *continued...*

books.com/ An independent bookshop specializing in children's books and mysteries for adults. [Exp. #146.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.html* Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Shamrock Base Corp. *http://wavenet.com:80/~shamy/* Offering base materials used in road construction and a downtown, L.A. concrete/asphalt dump site. [Exp. #146.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources within Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

Songwriting Consultants, Ltd. *http://www.earthlink.net/~songmd/* Hit songwriter Molly-Ann Leikin helps good songwriters become hit songwriters. Check out her Songwriter's Collaboration Network. [Exp. #144.]

Southwest Airlines *http://www.iflyswa.com/* Complete flight and fare info in a very easy-to-use format, make reservations online. [Exp. #145.]

Stop Crime, Become A Tough Target *http://www.catalog.com/borelent* Personal protection devices. Stun guns, pepper sprays, alarms, crime prevention reports, and much more. [Exp. #145.]

Superior Stamp & Coin *http://www.amark.com/amark* Conducts auctions of individual/estate consignments of stamps, coins, manuscripts, fine arts, sports and space memorabilia. [Exp. #146.]

TLC, The Eye Center *http://www.laservision.com/TLC* The first Internet site dedicated to clinical excellence in Laser Vision Eye Correction. [Exp. #146.]

Tubz *http://www.opendoor.com/Tbuz/TubzHmPage.html* The largest selection of jetted and nonjetted bathtubs on the West Coast. [Exp. #146.]

Walnut Creek CDROM *http://www.cdrom.com* Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products, site includes product demos. [Exp. #145.]

Web Books—Online Bookseller And Special Services *http://www.primenet.com/~jculp/* Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services. [Exp. #142.]

Windjammer Barefoot Cruises *http://www.windjammer.com* Offers descriptions of each ship in the fleet, plus a "News and Specials" section and FAQ about Windjammer. [Exp. #146.]

Working Assets *http://www.wald.com/wa/wald* Working Assets provides ways for customers to be effective citizens and philanthropists. [Exp. #146.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://sfaktor.com/xfaktor* Specialized in traditional and electronic design implementation, including advertising, Logo, publication layout, and web page design. [Exp. #146.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

Astro-Temp *http://voyager.via.net/netbiz/atemps.html* High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

AttorneyNet *http://www.artoneynet.com/* An international resource for locating an attorney, including an extensive list of Internet legal sites. [Exp. #146.]

BayNet Real Estate *http://www.baynet.com/re.html* The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Career Network Magazine *http://www.earthlink.net/careernet/* Online publication of the Career Network's CD-ROM magazine—informative articles, employment classifieds, resumes of hundreds of job seekers, and color display ads. [Exp. #146.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

EE/CS Mother Site *http://www-soe.stanford.edu/soe/ieee.eesites.html* Links to EE/CS corporations, organizations, and schools. [Exp. #146.]

Employment Home Page *http://www.nscnet.com/job001.htm* Dedicated to providing the best links to employment resources across the Internet. Updated daily. [Exp. #145.]

Employment Today *http://204.188.129.2/netbiz/employ.html* High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

@Home PC-Biz Info *http://www.earthlink.net/~mspcbiz/* Make Money with Your PC! author, Ms. PC-Biz, gives hints, success stories, and advice. [Exp. #146.]

Incorporate In Tax Free Nevada *http://deltanet/com/bazaar/nevada.htm* Create a safe environment for you and your online company. Judgement proof and reduce your tax liabilities. [Exp. #146.]

IndustryNET *http://www.industry.net* Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #145.]

Just Computers! *http://www.businessl.com/justcomp/* Online catalogue of Linux distributors, Linux books, Internet books, Linux applications, and more. [Exp. #146.]

National Center For Employee Ownership *http://www.esop.org/~nceo* Provides information on employee ownership in the US and elsewhere and lists publications and events. [Exp. #142.]

Network World *http://voyager.via.net/netbiz/network.html* The international directory of MLM and network marketing opportunities. [Exp. #141.]

NewWEB *http://www.m2.com/nw.html* World news, updated throughout the day, with an emphasis on computing, communications, and high tech. [Exp. #145.]

NTA Tour And Travel Shoppe *http://www.travelfile.com/ntatours* For information on packaged leisure travel products. [Exp. #146.]

R.E.InfoNet—Real Estate Information Network *http://www.reinfonet.com/* An excellent resource for both buyer and sellers. Articles as well as homes for sale. [Exp. #146.]

Resumes Online *http://voyager.via.net/netbiz/resumes.html* The place for job seekers to tell the world market of their availability. [Exp. #141.]

rTs Computers Systems Home Page *http://www.rtscomp.com/~pouncy/* Designed to help local users find businesses in the community. [Exp. #146.]

Saludos Career Web *http://www.hooked.net.saludos/* Devoted exclusively to promoting Hispanic careers and education, supported by *Saludos Hispanos* magazine. [Exp. #146.]

The Syndicate *http://www.centcon.com/~billman/syn.html* Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

TechExpo WWW Directory Of Hi-Tech *http://www.techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines; high-tech firms, products, services; much more. [Exp. #145.]

Television Careers *http://www.bookfair.com/welcome/televisioncareers* Describes net insider's guide to landing a job in television. Includes sample chapter. [Exp. #146.]

The Virtue Of Selfish Investing *http://www.value.net/~vsi* Newsletter service for growth stock investors—annualized 34.5% year returns from 1/91–6/95. [Exp. #146.]

Tradenet *http://voyager.via.net/netbiz/tradenet.html* The international directory of world trade opportunities and offerings. [Exp. #141.]

TravelEZ *http://www.travelez.com* TravelEZ is a comprehensive resource of travel and leisure information on the Web, from airlines to hotels. [Exp. #145.]

What's New In Travel *http://voyager.via.net/netbiz/travel.html* The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

Windows95 Annoyances *http://ocf.berkeley.edu/~daaron/win95ann.html* A forum for Windows95 users with helpful tips to overcome some of the minor annoying limitations and design flaws. [Exp. #145.]

ENTERTAINMENT

Aloha Dateline *http://www.aimnet.com/~ayl/aloha.htm* "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #145.]

Astrology By Moonlight *http://voyager.via.net/netbiz/astrol.html* Monthly personal horoscopes and astrological information. [Exp. #141.]

ATP Tour Online *http://atptour.com* The most comprehensive tennis Web page on the Internet, with news and information about men's pro tennis. [Exp. #145.]

Awesome Music Site *http://emusic.com* Music information, superfast browsing, 40,000 album images. Tons of fun. [Exp. #145.]

Bay Area Movie Guide *http://www.movietimes.com* Bay Area Movie Guide offers movie listings, information, reviews, links to movie company Web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Big Mouth Publishing *http://www.bookfair.com/publishers/bigmouth/biz/* Publishers Page featuring audio "Instant Guts!", guide to intelligent risk tak-

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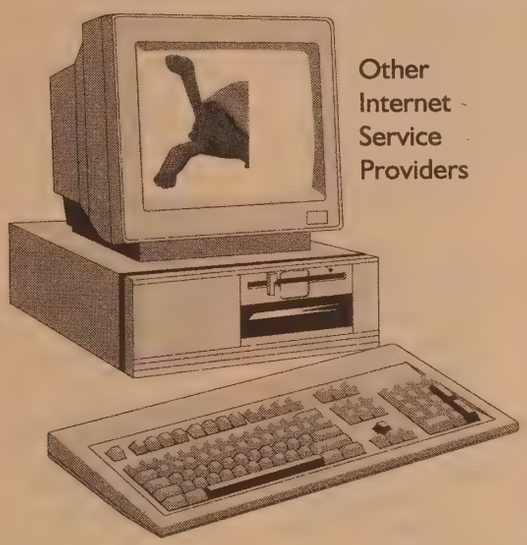
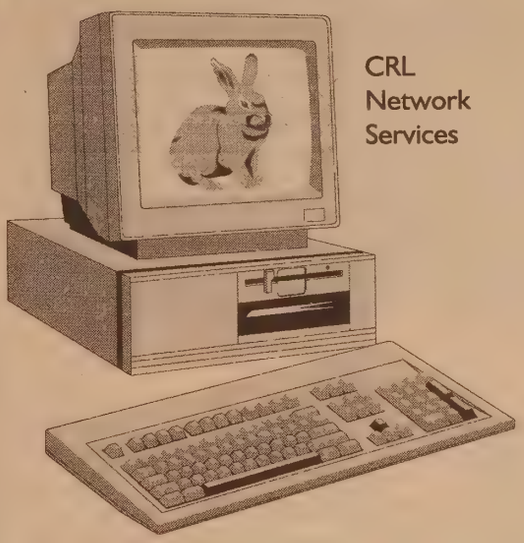


Other Internet Service Providers



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Online Guide

Web Page Listings *continued...*

ing in business, creativity, relationships. [Exp. #146.]

BONG Bull *http://www.au.com/bong/* Weekly encyclical of the Burned-Out Newspapercreatures Guild. Newsroom humor for journalists and media junkies. [Exp. #146.]

Brazilian Mail *http://www.BrazilianMail.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Burn:Cycle *http://www.burncycle.com/* Explore the wicked world of Burn:Cycle. Use your brain or lose your mind. [Exp. #146.]

Buzznet Magazine *http://www.hooked.net/buzznet* An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

CDworld: Largest Internet Discount Music Store *http://cdworld.com* Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea *http://www.compumedia.com/~jef* Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The CyberSet *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at your computer exercises with the CyberSet—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

Cybertzara *http://www.webcom.com/~cybertza/* Multimedia by Deborah Jaffe's Master/Slave Relationship and her new CD-ROM, Smut Picture Racket. [Exp. #146.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings plus a tour of 19th century Paris. [Exp. #145.]

EDGE Home Page *http://www.well.com/www/edge-home* Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

Edward "Equaliser" Woodward *http://www.deltanet.com/bazaar/equalize.htm* Information and enthusiasts' group. Stay up to date with other fans, the Eq/EW International Bullet, and more. [Exp. #146.]

Enzian Theater *http://magicnet.net/enzian/* Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

Film Analyst On-Line *http://www.kaiwan.com/~stussy/taussig/film01.html* A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

FLASHERS *http://www.cais.com/artcomic.flashers/html* Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #146.]

Freehead Web Page *http://wl.iglou.com/ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show*! Info, gig schedules, etc. [Exp. #145.]

Freshly Baked Cooked Book *http://www.primenet.com/~freshly/* L.A.-based psychedelic blues/funk/jazz/reggae/bluegrass/punk bank. This site contains artwork, lyrics, sound clips and recipes. [Exp. #146.]

Galaxy Entertainment Network *http://www.power.net/galaxy* Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment webmagazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

Harmony Central Music Pages *http://harmony-central.mit.edu/* Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Idea Futures *http://if.arc.ab.ca/IF.shtml* Bet on 150+ science, computer, and social controversies. Won major prize for best Web site. [Exp. #145.]

Interactivist/Go Digital Online *http://www.godigital.com Go Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more.

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Web Page Listings *continued...*

[Exp. #143.]

Irvine Harvest Festival 95 *http://www.deltanet.com/bazaar/harvest.htm* Festival activities, entertainment schedules, festival map, and discount coupon to the festival. [Exp. #146.]

K-Fone's Hot Interactive Voice BBS And Party Place *http://www.kfone.com/* Browse men and women throughout Southern California. Contact them free. Learn more about voice mail and more. [Exp. #146.]

KBBS Online *http://kbbs.kbbsnet.com* Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection *http://www.crl.com/~zallar/index.html* Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.use.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Links Golf By Bengtson Company *http://www.well.com/www/bengtson/golf.htm* Northern CA golf course directories, travel lodging, dining information, golf product information, and photos. [Exp. #142.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.sensemedia.net/sprawl/41345* Over twenty years jazzing up special events throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com/?mt* "We met on the Net!" Cyberflirting, email chemistry, and online romance. [Exp. #146.]

Merger *http://www.wp.com/Merger/home.html* L.A. area original Rock and Roll band. Info about the band and upcoming gigs. [Exp. #146.]

Millennium Whole Earth Catalog *http://www.well.net/mwec/* Twenty-nine pages from the Whole Earth Catalog transformed into about 170 Web pages. [Exp. #142.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Montreal World Film Festival *http://www.ffm-montreal.org* Site for the Montreal World Film Festival: bilingual descriptions, filmographies, schedules. [Exp. #146.]

Movies.net *http://www.movies.net/* The simplest movie address in cyberdom. Comprehensive, industry directory. Showtimes, promos, reviews, previews, and more! [Exp. #146.]

Multiworld Magazine *http://www.jnw.com.mw/index.html Multiworld* is a multimedia, multilingual magazine published bimonthly via the Web. [Exp. #144.]

Mystic Sports Journal *http://www.sirius.com/~regent/MSJ* Spinmeister Jim Webster does sports like you've never seen it. [Exp. #144.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echo-nyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Obscure Research Labs *http://140.249.8.212/ORL/* Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

Online World Monitor *http://login.eunet.no/~presno/monitor.html* A free, bimonthly online product for supporters of The Online World resources handbook; subscriptions available. [Exp. #141.]

Online World—Online Resources Handbook *http://login.eunet.no/~presno/index.html* Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Open Book *http://futon.sfsu.edu/%7etalon* Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rock Around The World *http://www.ratw.com* Rock Around the World radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

Rocktropolis *http://underground.net/Rocktropolis* Visitors can attend chat sessions with musicians, hang out backstage, hear new songs, send in photos, and much more. [Exp. #146.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

San Francisco Web *http://www.sfweb.com* Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

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Web Page Listings *continued...*

Science Fiction Now *http://www.science-fiction.com/* Buy, sell, and rate the science fiction stories from around the country and the globe. [Exp. #146.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Sports World Internet *http://www.sportsworld.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy Football League, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the North Bay. [Exp. #145.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Videomaker's Camcorder & Desktop Video *http://www.videomaker.com* High-quality, up-to-date information on video production and distribution; working to democratize and enrich television. [Exp. #141.]

Virtual Vegas *http://www.virtualvegas.com* Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards *http://www.virtualvin.com* Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Voyager Company *http://www.voyagerco.com* Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #146.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #146.]

World Square *http://www.w2.com* "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, heath, and medicine. [Exp. #142.]

XCENTRIX *http://www.servtech.com/public/sproing* An eclectic zine integrating a plethora of genres including art, music, fashion, gossip, drag queens, and more. [Exp. #146.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

Z Times *http://www.lh.com/z* National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

ORGANIZATIONS

American Bar Association *http://www.abanet.org* General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

American Communications Association *http://www.uark.edu/depts/cominfo/www/ACA.html* For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com*. [Exp. #145.]

Art & Artist Network *http://voyager.via.net/netbiz/artist.html* International directory of artists, art galleries, and art-related services. [Exp. #141.]

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #145.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the Net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/cre-*

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Online Guide

Web Page Listings *continued...*

ative/ Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage *http://www.greenpeace.org/* Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

History Computerization Project *http://www.history.la.ca.us/history* This Project includes: request forms for a free History Database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

Impact Online *http://www.internex.net/impact* Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

International Food Information Council *http://ificinfo.health.org* or *gopher://ificinfo.health.org* The International Food Information Council (IFIC) Foundation offers up-to-date facts on food safety and nutrition. [Exp. #144.]

International Netsuke Kenkyukai Society *http://www.hooked.net:80/users/yukiyama/* Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society *http://www.armory.com/~larry/ips.html A non-profit organization dedicated to furthering the awareness of fine glass paperweights. A Mecca of information. [Exp. #142.]*

Japan Summer Program *http://www.kaiwan.com/~stussy/japan95/japan11.html* Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Karma Kagyu Buddhist Cyber Center *http://144.92.74.130* Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

LatinoWeb *http://www.catalog.com/favision/latnoweb.htm* Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Napa Valley PC Users Group *http://community.net/~stevefc/index.html* The home page for the Napa Valley PC Users Group. [Exp. #141.]

National Air And Space Museum *http://www.nasm.edu* Research resources, learning materials, info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

Navy Engineering Field Division Environmental Department *http://ivory.nosc.mil/~saundel/default.html* Environmental Dept. Web Page provides information about Navy and Marine Corps installations whose environmental cleanup programs are managed by Southwest Division. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

SK Writers Home Page *http://www.skwriters.com* A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

Stanford University Bechtel International Center *http://fugi.Stanford.edu/icenter/icenter.html* Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #141.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

PERSONAL HOME PAGES

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about Health and Wealth Opportunities with Super Blue Green Algae. [Exp. #146.]

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyed Visionary. [Exp. #145.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Doug Michael Home Page

1

486 PCI MultiMedia Station
8MB/540MB/4xCD

- 486DX4-100 MHz
- 256K Cache
- **8MB** RAM/**540MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE FD/HD Controller (High Speed)
- Cirrus Logic W/1MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4X CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money

INTEL 486DX-4 100MHz $1369
AMD 486DX-4 100MHz $1289
Option: Windows 95 CD add $89

2

Basic w/Internet Ready

Pentium MultiMedia Station
INTEL Triton Chipset
16MB/850MB/4xCD

- P-90/100/120/133 MHz
- 256K Cache
- **16MB** RAM/**850MB** Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE FD/HD Controller
- ***ATI*** MACH 64 W/2 MB
- **MAG** DX-15F 15" Digital Control SVGA Monitor N-1(1280x1024, .26dpi)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4x CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money
- 14.4 Fax Modem (BOCA)

Pentium 90MHz 4xCD $1949
Pentium 100MHz 4xCD $2019
Pentium 120MHz 4xCD $2199
Pentium 133MHz 4xCD $2339
Option: Windows 95 CD add $89

3

Pentium Triton Chipset
8MB/540MB/15"

- P-75/90/100/120 MHz
- 256K Cache
- **8MB RAM**
- **540MB HD**
- Teac 1.44MB Floppy Drive
- PCI Enhanced FD/HD CTR
- PCI ***ATI*** SVGA Mach 64 W/2MB
- 15"SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case

Pentium 75MHz $1279
Pentium 90MHz $1339
Pentium 100MHz $1409
Pentium 120MHz $1589
Option: Windows 95 CD add $89

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4

Pentium MultiMedia Station
INTEL Triton Chipset
8MB/540MB/15"/4xCD

- P-75/90/100/120/133 MHz • 256K Cache
- **8MB** RAM/**540MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE Enhanced FD/HD Controller High Speed
- ***ATI*** MACH 64 W/2MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler

Pentium 75MHz 4xCD $1509
Pentium 90MHz 4xCD $1589
Pentium100MHz 4xCD $1659
Pentium120MHz 4xCD $1839
Pentium133MHz 4xCD $1979
Option: Windows 95 CD add $89

5

Pentium Station
INTEL Triton Chipset
16MB/850MB/15"/4XCD

- P-75/90/100/120/133 MHz
- 256K Cache
- **16MB** RAM/**850MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE Enhanced FD/HD Controller
- ***ATI*** MACH 64 W/2MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4X CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler W/Windows 95 Loaded & Licensed CD

Pentium 90MHz $ 1929
Pentium 100MHz $ 1989
Pentium 120MHz $ 2169
Pentium 133MHz $ 2309

6

Pentium MultiMedia Super Station
Adaptec
SCSI/16MB/1GB/17"/6XCD

- P-90/100 MHZ
- 256K Cache
- **16MB** RAM/**1GB** SCSI Hard Drive
- Teac 1.44MB Floppy Drive
- ADAPTEC 2940 SCSI II Controller
- ***ATI*** MACH 64 W/2MB
- **MAG** DX-17F 17"Digital Control SVGA Monitor N-1(1280x1024, .26dpi)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 6XCD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler

Pentium 90MHz $2599
Pentium 100MHz $2659
Pentium 120MHz $2839
Pentium 133MHz $2979
Option: Windows 95 CD add $89

nds after 14 days. 1 year warranty on parts. Monitors and Printers warranteed by the Manufacturer. All systems have a 2 years labor warranty at Impact Computers 15% restocking charge after 14 days and within 30 days of invoice date

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- Dialup PPP/SLIP Connections: All 28.8 Access
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- Business and Personal Accounts

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- Comprehensive Hosting Services
- HTML Programming Services

Consulting Services
- FTP & Web Server Configuration
- Network Design
- Security Services

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Online Guide

Web Page Listings *continued...*

http://www.ccnet.com/~dmic27 This site deals with original music by composer Doug Michael and includes sound samples, release info, and cool music links. [Exp. #146.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Garden Songs *http://www.geopages.com/Paris/1416/soos.html* Poetry by SOOS (Strong Opinions On Success). [Exp. #146.]

Greg's Point Reyes Wild Life Home Page *http://users.aimnet.com/~winter/ptreyes.htm* Wild life that can be seen at or near the Point Reyes National Seashore in Northern California. [Exp. #146.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.he.tdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I'll Have Some Fries With Those Beastie Boys *http://www.hooked.net/users/Clayton* Save Mumia Abu-Jamal, Beastie Boys, Aeon Flux, Burrito, Pulp Fiction, personal bio. [Exp. #146.]

Jeff's Homepage—The Quam *http://www.emf.net/~quam* Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

Joyous Guard *http://www.deltanet.com/users/roy/home.html* Links to a variety of interesting sites: adult, hacking, movies, music, philosophy, sci-fi, and indices. [Exp. #145.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons of cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Mishworld *http://www.earthlink.net/~mish* Harmful nonsense, links to strange things, poetry, and other fun but useless information. [Exp. #146.]

Myers Information Services *http://www.weight.com* Information on weight control and eating disorders written for the layman by a physician that treats both. [Exp. #146.]

Nabeel Ibrahim's Home Page *http://www-leland.stanford.edu/~ibrahim* Take the EE Purity Test! [Exp. #146.]

Ramsey Ksar Home Page *http://pandora.library.ucsb.edu/~ramsey* An innovative personal home page with great links, my resume center, and a short bio. [Exp. #146.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff... [Exp. #145.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/*

INTERNET

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An account includes unrestricted access to the Internet and the World Wide Web, your own E-Mail Address, over 13,000 UseNet Newsgroups, a Personal Web Page, Telnet UNIX Shell access, and much more. An easy-to-install Windows and Macintosh software suite, featuring Netscape, is included for no additional charge.

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*Other accounts are available starting as low as $9.95 per month.

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You can access Delta online by dialing any local access number from your computer (N,8,1). Login as 'guest' with a password of 'newuser'. After reviewing Delta's products and pricing, a menu option will allow you to sign-up for an Internet account right from your computer. If you need additional information, or if you prefer to talk to an account representative, please call (714) 778-0370.

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Commercial WWW hosting starts at $49.95 per month and includes monthly access statistics and forms capability.

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San Bernardino *(909)*	909 381-2000
Riverside *(909)*	909 222-0200
Gardena *(310 and 213)*	310 217-9200
Ontario *(909)*	909 605-9906
San Diego *(Entire PacBell 619 Area)*	619 977-1291
Encinitas *(619)*	619 633-4360

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Online Guide

Web Page Listings *continued...*

Places to explore, useful links for finding helper apps, freeware, and shareware. User Group info. [Exp. #144.]

Tom Curtis's "Wide World Of Art" *http://www.slip.net/~tommy999* Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

POLITICAL/SOCIAL

6th International Conference On Computers In Agriculture *http://www.agen.ufl.edu/~fzazueta/* Conference, in Cancun, Mexico, June 11–14, 1996, will provide a forum for agriculture related professionals to exchange information on applications and developments in the use of computers in agriculture. [Exp. #146.]

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

American Association Of University Presses *http://aaup.pupress.princeton.edu:70/* Offers online catalogue of over forty-nine thousand scholarly books in print at university presses. [Exp. #146.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bacard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Berkeley-East Bay Humane Society *http://www.ccnet.com/~bebhs* Photo tour and information about our animal shelter and veterinary hospital. (Netscape 1.1 recommended.) [Exp. #146.]

Burlingame On-Line *http://www.spectrumnet.com/burlingame.html* Burlingame On-Line provides news, information, and shopping for the city of Burlingame and surrounding communities. [Exp. #146.]

Burlingame On-Line PEZ Page *http://www.spectrumnet.com/paz/* Largest display of PEZ dispensers on the West Coast, includes history, facts, and PEZ store. [Exp. #146.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Capnet Gateway On-Line Service *http://turnpike.net/emporium/C/CAPNET/health.htm* An Internet resource center for information regarding Healthcare and Humanity. [Exp. #146.]

Chabot Observatory And Science Center *http://ousd.k12.ca.us/COSC/Chabot.html* Located at 4917 Mountain Blvd. in Oakland near Hwy. 580/13 interchange. [Exp. #146.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Child Safety Forum *http://www.xmission.com/~gastown/safe* Provides safety information that may save your child's life or prevent a serious injury. Each month features child safety tips for a different room of the house. [Exp. #146.]

Chile Guide *http://sunsite.dcc.uchile.cl/~mvasquez/chile/index.html* Chile Guide is a page where you can find all about Chile. [Exp. #146.]

The Computer History Association Of California *http://www.chac.org/chac/* An introduction to the CHAC, includes ftp of all issues in plain text, links to other computer history pages, and more. [Exp. #146.]

County Of Orange *http://www.oc.ca.gov* Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Cuba WWW *http://www.unipr.it/~davide/cuba/home.html* Country information, maps, WWW sites, Gopher sites, mail, news, tourism, and more. [Exp. #146.]

CyberKorea *http://165.113.175.2* Intro to CyberKorea, Korean Web directories for news, Internet providers, and other sites. Short Korean lessons (coming soon). [Exp. #146.]

CyberLaw *http://www.portal.com/~cyberlaw/* Educational service on computer law for computer users published monthly, including CyberLaw and CyberLex archive. [Exp. #141.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party Home Page *http://www.webcom.com/~digitals* A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

The Economist *http://www.earthlink.net/~theeconomist* Read issues of local interest compiled by the Los Angeles bureau of *The Economist* magazine. [Exp. #146.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Girvies Davis Home Page *http://www.mcs.net/~bkmurph/girvies.htm* Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence", pictures, audio, more. [Exp. #142.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. Annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Grant Tracker Home Page *http://www.rahul.net/kendric* Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Henry Ford Museum Online *http://hfm.umd.umich.edu* Provides users with historical content and programs. Highlights include "The Automobile in American Life," "Made in America," and Presidential limo exhibits. [Exp. #146.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.html* Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Interactivist *http://199.172.178.200* A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Internet Health Resources *http://www.ihr.com* Extensive and practical health resource information for Internet users. [Exp. #142.]

Islamic Server Of MSA-USC *http://www.usc.edu/dept/MSA/* Contains information on Islam,

LA Internet

Small Business Account

$48.00
per month
$30 setup

LA Internet specializes in providing *complete, easy-to use Web packages* for small businesses. An LA Internet Small Business Account includes everything you need to establish an Internet presence *at one low price*: • 5MB of Web page space • Domain name registration • Complete SLIP/PPP access (see below) • Unlimited use • Business name E-mail and URL alias • Web Starter Kit with sample home pages and HTML composition tools • Image maps (clickable images) • CGI data base search tools • CGI forms support • Web page hit reports *Our Netscape Server ensures the most stable and reliable platform for your Web Pages.* Call and ask for our Small Business fax info pack.

puts your small business

Personal Account

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per month
$25 setup

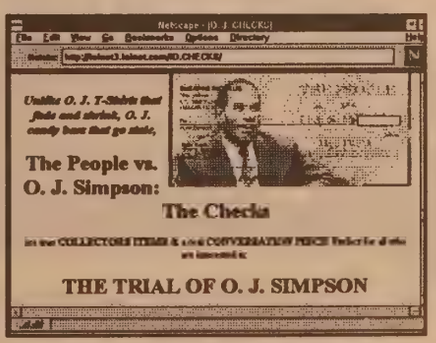
Our SLIP/PPP packages for personal and small business users comes on easy-to-install diskettes and includes preconfigured Windows software; Mosaic, FTP, Chat, Eudora E-mail, Telnet, News, UUencoder/decoder, L-View, and more. A comprehensive on-line manual is also provided. Our FTP site is constantly updated with new software which are available for free. We support **Windows 3.1** *and* **Win95**, **OS/2 Warp**, and any **generic** SLIP/PPP software. We also support Internet Starter Kit for the **Macintosh** (complete configuration information provided at signup). *NOW INCLUDES UNLIMITED ACCESS and 200K Web page!*

on the World Wide Web

FREE 7-DAY TRIAL OFFER. Test drive LA Internet with no risk. Take your time to cruise the Internet using our SLIP/PPP connection; download files, browse news groups, even create your own Web pages with NO obligation. At the end of 7 days, if you decide LA Internet is not for you, just cancel and you'll owe us nothing.
LA Internet uses 28.8 Kbps V.34/V.FC modems exclusively.

http://www.lainet.com/cdbanzai

http://www.lainet.com/worldwalks



http://www.lainet.com/ID.CHECKS

For more information or to sign up use your modem to dial
(310) 442-4655
login: guest password: guest
Voice: (310) 442-4670 Fax: (818) 223-8831
info@lainet.com http://www.lainet.com

LAinternet
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Online Guide

Web Page Listings *continued...*

including several large reference works. [Exp. #146.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

Los Angeles County Museum Of Art *http://www.lacma.org* Largest museum west of the Mississippi is online. Come and see the art. [Exp. #146.]

NAAFA Online *http://world.std.com/~naafa* National Association to Advance Fat-Acceptance. Promoting wellness and combating prejudice against fat people. [Exp. #146.]

NASA Office Of Space Science *http://www.hq.nasa.gov/office/oss* The NASA Headquarters Office of Space Sciences provides information and links to Space Science sites. [Exp. #146.]

New Civilization Network *http://newciv.org/worldtrans/newcivnet.html* "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

Oceania, The Atlantis Project *http://ocenia.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

Old Town Pasadena *http://www.earthlink.net/~jescala/oldtown.htm* A comprehensive guide to the night life of Old Town Pasadena, with reviews of bars, pool hall, and clubs. [Exp. #146.]

OSU Government Information Sharing Project *http://govinfo.kerr.orst.edu/* Funded by the U.S. Dept. of Education, this site provides access to detailed population and agricultural statistics for Northwest states. [Exp. #146.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and childcare products. [Exp. #146.]

People Who Care *http://www.people-who-care/people* HIV programs, community organizations, job training, homeless care, counseling, cultural activities at St. Paulus. [Exp. #146.]

PETA *http://environlink.org/arra/peta/indes/html* PETA, People for the Ethical Treatment of Animals, online includes factsheets, updates, membership info, a list of cruelty-free companies, and other resources. [Exp. #146.]

Phil Gramm For President Campaign *http://www.gramm96.org* Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

Portola Views *http://www.primenet.com/~martonj* Portola Hills Community Bulletin Board, providing event, activities, and neighborhood interface with a virtual Town Hall. [Exp. #146.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Remembering Nagasaki *http://www.exploratorium.edu/nagasaki* A WWW page and Internet Exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

Rivendel Pages *http://umbc8.umbc.edu/akhatt1/Rivendel.html* Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

Salvador Dali Museum *http://www.highway.com/dali/* Features lots of cool Dali images, including flies and melting clocks, and explains how the museum got to be located in St. Petersburg. [Exp. #146.]

San Jose State University Continuing Education *http://conted.sjsu.edu/* Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

Seminars In Usable Design *http://www.info-design.com/usable.design* Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

SF Jewish Bulletin *http://www.jewish.com/jb* The first Jewish weekly newspaper available in its entirety on the Web, includes articles, columns, calendar listings, classified ads, and more. [Exp. #146.]

Simon Wiesenthal Center *http://www.wiesenthal.com/* [Exp. #146.]

Southern California Gay Wired *http://www.gaywired.com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Tax Prophet *http://www.taxprophet.com* The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

This Is True *http://www.infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #146.]

U.S. Holocaust Memorial Museum *http://www.ushmm.org* Now provides access to the complete catalog of the U.S. Holocaust Memorial Museum Research Institute document archives. [Exp. #146.]

UC Santa Cruz Extension Catalog *http://www.ucsc.edu/unex* Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

University Of Phoenix Online *http://www.uophx.edu/online/* Accredited university offering online business degree graduate and undergraduate programs for working adults. [Exp. #146.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the Ameri-

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- Acer 4X IDE CD ROM Drive & Amplified Speakers
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- MS CD Bundle (Encarta/Money/Works/Scenes)
- Microsoft Mouse & Acer 101 Keyboard
- 7 Bay Mid Tower Case & TEAC 3.5" FDD
- **Microsoft Windows® 95** or DOS 6.22 & WFW 3.11

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Pentium®100MHz	**$2,555**
Pentium®120MHz	**$2,755**
Pentium®133MHz	**$2,875**

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Voice: 310-577-5800
Modem: 310-577-5810
login: guest
password: newuser

Web Page Listings *continued...*

can ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Wellness Essentials *http://voyager.via.net/net-biz/weles.html* The home page of wellness information and nutritional products and more. [Exp. #141.]

Yoga Fitness *http://www.iyoga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #146.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

Binary Services Solutions *http://www.kaiwan.com/~npham* Provider of Internet home page publishing, FoxPro, and C++ business applications. Free initial consultation. [Exp. #142.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer consulting. [Exp. #145.]

Dana Point Communications—Beach.Net *http://www.beach.net/* Dana Point Communications provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #146.]

DNAI's MacPac ISDN *http://www.dnai.com/isdn.html* Direct Network Access is the Mac user's source for easy affordable ISDN access. [Exp. #146.]

eCenter *http://www.ecenter.com* Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

Flamingo Communications *http://www.fcom.com/* Provides reliable Internet access to individuals and businesses in the Los Angeles South Bay. [Exp. #146.]

Fountainhead Internet Systems WWW Site *http://www.earthlink.net/~fountainhead* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Gregory Springer Multimedia *http://www.webcom.com/~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

HTML To ICADD/Braille *http://www.ucla.edu/ICADD/html2icadd-form.html* This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

Hurricane Electric *http://www.he.tdl.com/spaceservices.html* Hurricane Electric offers web space for $1 a month as well as full service Internet marketing including design, publicity, and analysis. [Exp. #146.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

I-Comm: Web Surfing Without SLIP/PPP *http://www.best.com/~icomm/icomm.htm* I-Comm is a full-feature graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #145.]

InterNex Information Services *http://www.internex.net* Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #146.]

InVision Consulting *http://www.iconsulting.com/* Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems *ftp://ftp.netcom.com/pub/rl/rlai/www/home.html* Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek *http://www.isdntek.com* PC-based hardware for high-speed ISDN access. [Exp. #142.]

JES & Associates, Inc. *http://www.jes.com/jes* Hands-on workshops covering PICK, Advanced PICK, Unidata, uniVerse, UNIX, Internet, and WWW. [Exp. #144.]

The L.A. Internet Everything Guide *http://worldwise.com/laguide* A total guide to Southern California and beyond. All serious publications and entrepreneurs invited to help develop this domain. [Exp. #146.]

Launch Point Internet Service *http://www.lpoint.com* How to get a Web site for your company. [Exp. #142.]

Muns Designworks *http://www.deltanet.com/users/dznwks/* A home page designer who specializes in 3-D graphics. This is a gallery of Paul's raytraced graphics. [Exp. #146.]

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PENTIUM™ MULTIMEDIA SYSTEM

- Intel Pentium CPU
- Intel Triton PCIset™ Motherboard
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- Diamond Stealth Video 2MB DRAM VGA Card
- 1.44 Floppy Disk Drive
- Medium Tower Case w/250W power supply
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- Sound Blaster 4x discovery package 24 Titles
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- 101 Enhanced Keyboard
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P-100MHz.....$2699
P-120MHz.....$2999
P-130MHz.....$3199

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- PCI on-board eIDE controller
- High speed 16550 UART I/O
- Trident PCI 1MB VGA Card
- 1.44 Floppy Disk Drive
- Medium Tower Case w/250W power supply
- 14" SVGA .28mm dpi N.I. Monitor
- 101 Enhanced Keyboard

Pentium 75MHz.....$1095
Pentium 100MHz.....$1195
Pentium 120MHz.....$1395
Pentium 133MHz.....$1595

486 MULTIMEDIA SYSTEM

- 4MB RAM
- 540MB Hard drive
- 1.44 Floppy Disk Drive
- VLB eIDE I/O controller
- VLB VGA Card
- Mini Tower Case
- 2x Speed CD ROM
- 16bit Sound Card
- 14" SVGA .28mm N.I. Monitor
- 160 Watt Speaker

486DX2/66MHz $859
AMD 486DX4/100MHz $899
Intel 486DX2/66MHz $939
Intel 486DX4/100MHz $989

486 BASIC SYSTEM

- 486 VLB Motherboard w/72pin combo
- 4MB RAM
- 540MB IDE Hard drive
- VLB eIDE I/O controller
- Cirrus Logic 5428 1MB (up to 2MB) VGA Card
- 1.44 Floppy Disk Drive
- Mini Tower Case w/230W power supply
- 101 Enhanced Keyboard
- 14" SVGA .28mm N.I. Monitor

Cyrix 486DX2/66MHz.....$750
AMD 486DX2/66MHz.....$809
AMD 486DX4/100MHz.....$869
Intel 486DX2/66MHz.....$829
Intel 486DX4/100MHz.....$1029

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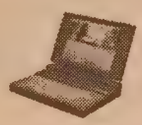

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AT Super IDE IO adapter (dual FDD & HDD, 2S, 1P, 1G)	$13
Vesa Local Bus Super IDE &	19
PCI IDE adapter	25
PCI IDE w/IO (1655 UR)	49
PCI SCSI adapter	69
AT IDE w/16550 Hi-Speed IO	29
VLB IDE w/16550 Hi-Speed IO	43
VLB SCSI w/16550 Hi-Speed IO	119
Adaptec AHA-1522K SCSI floppy/hard adapter card	89
Adaptec AHA-1542CF SCSI bus master adapter card	189
Adaptec AHA-2742TK EISA SCSI bus master host adapter card	339
Adaptec AHA-2842K VLB SCSI bus master host adapter card	199
Adaptec AHA-2940 PCI wide SCSI-3 host adapter card	249
Adaptec AHA-2940 PCI fast SCSI-2 host adapter card	207

Please call for pricing on GSI, Promise, Bus Logic, Boca, DTC, Ultrastor, Future Domain, Always, Tekram and Q Logic controllers.

CD-ROM DRIVES

Creative Labs Value CD 4x Internal 11 Titles	$259
Creative Labs Discovery 4x Internal 20 Titles	319
Creative Labs Home 4x Internal 24 Titles	389
Acer 2x Internal IDE	98
Mitsumi 4x Internal IDE	175
NEC 510 3x Internal SCSI	195
NEC 511 4x Internal SCSI	319
Panasonic 562B Internal 2x	117
Plextor 4x Internal SCSI OEM	299
Plextor 6x Internal SCSI OEM	525
Sanyo CDR-94A 2x Internal	105
Sony 55E 2x Internal IDE	109
Toshiba 3502 4x Internal IDE	185
Toshiba 3602 4.4x Internal SCSI	349
Teac 55A 4x Internal IDE	179
4 CD Titles	12
14 CD Titles	37
16 CD Titles	42

Please call for pricing on Texel, Philip, Pioneer and any other unlisted models.

CHASSIS (CASES)

Pac AC-21 mini tower case w/230w power supply	$37
Pac CS-11 desktop case w/200w power supply	43
Pac CS-21 mini tower case w/230w power supply	43
Pac CS-31 mid tower case w/230w power supply	59
Pac CS-41 full tower case w/230w power supply	79

FLOPPY DISK DRIVES

Safonic 1.2mb (5.25")	$39
Safonic 1.44mb (3.5")	29
Teac 1.2mb (5.25")	44
Teac 1.44mb (3.5")	34
Teac dual 1.2mb (5.25")/1.44mb (3.5")	85

HARD DISK DRIVES

Conner CFS 540A-540mb IDE	$169
Conner CFA 850A-850mb IDE	209
Conner CFA 1275A-1.2GB IDE	259
Maxtor MX-7540A-540mb IDE	169
Maxtor MX-7850A-850mb IDE	209
Maxtor MXT-71260A-1.2GB IDE	259
Quantum 420mb IDE	159
Quantum 540mb IDE	199
Quantum 540mb SCSI	229
Quantum 730mb IDE	239
Quantum 1080S-1.08GB SCSI	329
Quantum 2GB SCSI	699
Samsung 420mb IDE	155
Samsung 560mb IDE	165
Samsung 850MB	209
Samsung 1.2MB	269
Western Digital AC2540-540mb IDE	189
Western Digital AC2700-730mb IDE	209
Western Digital AC2850-850mb IDE	239
Western Digital AC31000-1GB IDE	279
Western Digital AC31200-1.2GB IDE	289

Please call for pricing on Digital(DEC), Micropolis, Mini-Stor and any other unlisted models.

KEYBOARDS

Focus 2001 w/hard dust cover	$32
Focus 6000 (soft click)	23
Focus 7000 w/trackball	35
Focus 8000 (calculator, soft click)	36
Focus 9000 (programmable calculator)	46
Fujitsu 4720 (click)	39
Microsoft Natural Hi-Tech	79
Acekey 101	15

MEMORY

Simm 1x3 (1mb) 30pin	$42
Simm 1x9 (1mb) 30pin	43
Simm 4x3 (4mb) 30pin	135
Simm 1x32 (4mb) 72pin	150
Simm 2x32 (8mb) 72pin	289
Simm 4x32 (16mb) 72pin	489
Simm 8x36 (32mb) 72pin	999
Simm 16x36 (64mb) 72pin	2299

MICROPROCESSORS (CPU)

Intel Pentium 100MHz	$489
Intel Pentium 90MHz	359
Intel Pentium 75MHz	299
Intel 486DX4-100MHz	219
AMD 486DX4-100MHz	129
AMD 486DX2-80MHz 3V	119
AMD 486DX2-66MHz	109
Intel 486DX2-66MHz	149
Pentium CPU fan	13
486 CPU fan	8

MODEMS

Zoltrix 14.4 Internal Fax/Modem	$49
Zoltrix 14.4 Internal Fax/Modem Voice	65
Zoltrix 28.8 Internal Fax/Modem	115
Smartlink 28.8 Internal Fax/Modem	119
Smartlink 28.8 Internal Fax/Modem Voice	259
US Robotics Sportster SI 14.4 Internal Fax/Modem	69
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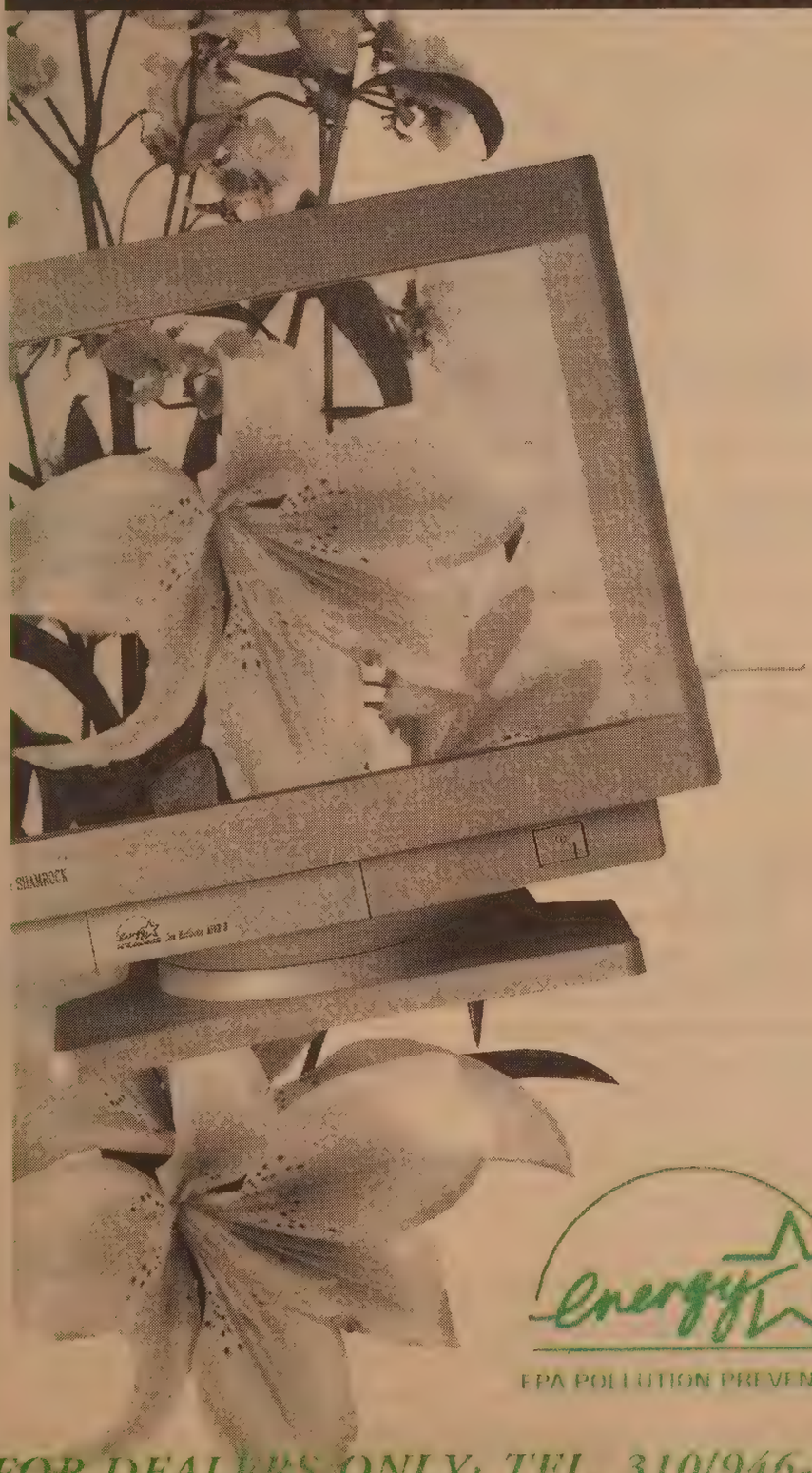

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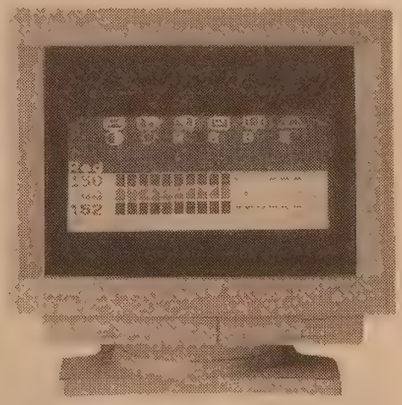

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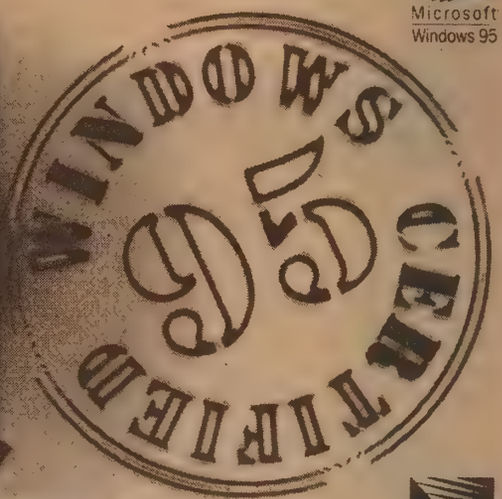

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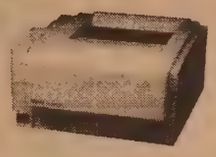

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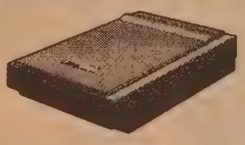

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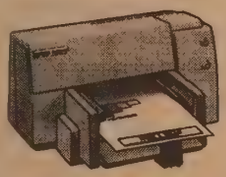

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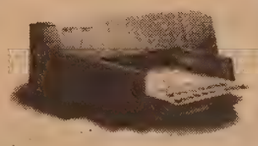

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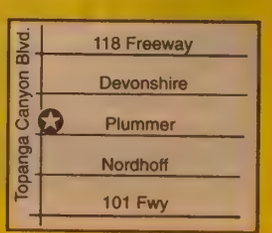

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Report Back From Boston Macworld Expo

This month we take a hard, cold look at the hot goings-on at August's Boston Macworld Expo. Steaming like dim sum in the East Coast humidity, the 60,000+ attendees found the semiannual show a Macintosh love-fest. Actually, the weather was great—considering that a killer heat wave had rolled into the Northeast several weeks before the Expo. It made the usual hot weather during the show almost seem like a trip to the North Pole.

If only every Mac user could make a pilgrimage to the actual crossroads of the Mac world, the BMUG main meeting, they'd find an Expo-style experience every week!

Exponentially Great

In bygone years, the combination of high heat and high humidity have frequently taken some of the starch out of Expo attendees. But at this year's show spirits were especially high, even in the face of the relentless and unavoidable hype surrounding Windows 95.

Last year particularly, I felt a byte of malaise had crept over both the crowds and the vendors hawking their products. The first generation of Power Macs had just shipped, which was great news, but there seemed to be concerns over the viability of the Mac and Apple.

This year, in the face of P.T. Barnum-level Windows publicity, the Mac community took a good look at itself in the mirror and liked what it saw—screaming new PCI Power Macs, an aggressive clone market, and lots of fantastic products. The Mac platform is alive and kicking!

Attendees tolerated with smiles even the sly harassment of a clown at the Power Industries booth; he was a real clown, not a run-of-the-mill marketing type. He was shilling the company's Math Circus program and magically persuaded suit-and-tie business execs into wearing elaborate balloon hats. They could be seen for blocks walking around the Expo.

The new lineup of PCI Macs—the Power Macintosh 7200, 7500, 8500—were of primary interest to the crowds at the Expo. The PCI models were such a big draw that they changed attendance patterns of the show.

The summer Expo is divided between two venues, the main hall at the World Trade Center near downtown Boston and the Bayside Expo Center, located about twenty minutes away. Bayside was considered by vendors to be the second-class spot, since most attendees start their Magical Mac tour at the Trade Center. No longer!

Instead of hanging out in a cramped, air-conditioned circus tent alongside the WTC—and forcing people to wait in lines in the sun—Apple this year placed its booth indoors at Bayside. Now with PCI Macs, both joints were jumpin'.

Eye To Eye With PCI

As we mentioned a couple of months ago after the release of the Power Mac 9500, the new models use a high-speed Peripheral Component Interconnect bus instead of the old-fashioned NuBus, which has been used on modular Macs since 1987.

PCI is used by many different segments of the computer industry, from desktop machines to workstations meaning that Mac users will no longer be confined to a Mac-only market with a rather limited number of developers and high ticket prices for Mac-only cards. Both PC and Mac vendors at the Expo demonstrated PCI cards offering large monitor support, graphics acceleration, speedy storage, fast networking, and DOS coprocessors.

Apple's new PCI models move the performance gains from the high-end six-slot 9500 down to entry-level desktops. Although familiar on the outside to Mac users, the new machines all have three slots using the flexible and fast PCI bus.

There's quite a range in prices, too. More bucks gives you faster processors, bigger hard drives, and different built-in video display and output capabilities.

The two configurations of the entry-level 7200 cost from $1700 to $1900. The 7500/100 is about $2700 and the 8500/120 is about $3900. Some BMUGers at the show said that the 7500 looks to be the next IIci, a machine with a lot of "legs," or longevity.

If you attend a BMUG meeting then you should write down the code names for the models, since most people don't like to use the numeric designations. Catalyst, TNT, and Nitro are the names for the 7200, 7500, and 8500, respectively. Tsunami was the code name for the 9500.

This Boston Expo was also the first show featuring Mac clones on the floor. Try hard to avoid saying the word "clone" in any of their booths; some of the sales reps have a cow if they hear their precious babies referred to as "clones." They prefer you call the machines "compatibles."

Although not having a booth, Power Computing made a big splash at

continued on page 194

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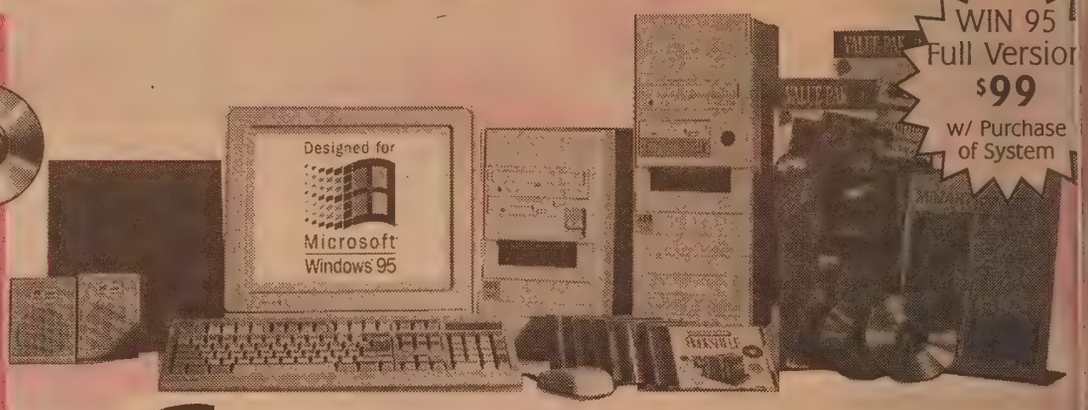
- US Robotics 14.400 Add: $30
- MicroScan 5EP 17" Flat Screen 1280x1024 Monitor Add: $328



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- 4X Quad Speed Photo CD-ROM
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- 2 High Class Speakers
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- 16MB RAM & 256K Cache
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- Diamond Stealth 64 PCI 2MB SVGA Card
- MAG 17" 1280 .28 NI "GREEN" SVGA
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- VLB IDE w/2 Serial & 1 Parallel Port
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- PCI/IDE Control Card
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Intel Pentium 100 MHz...$1168
Intel Pentium 120 MHz...$1368
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HP LaserJet 4 Plus/4M Plus	1348/1855
HP LaserJet 4SI/4SI MX2	2850/3995
HP LaserJet 4V/4MV	Call/Call
HP Color LaserJet	Call
HP ScanJet 3P (IBM or MAC)	Call
HP ScanJet IIIC (IBM or MAC)	895

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20 Education CD Titles
Speakers
Microphone
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2X Double Speed CD-ROM
Photo CD
Sound Blaster 16-by "Creative Lab"
2 Speakers
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Sound Blaster 16 by Creative Lab SCSI
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14 CD Titles (Encyclopedia...)
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VLB IDE I/O	18
VLB IDE W/16550 I/O	42
PCI IDE w/16550 I/O	43
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PCI Adaptec-2940 SCSI-2	198
PCI Adaptec-2940W SCSI-3	255

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US Robotics 28.8 EXT.	245
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Conner 2.0GB SCSI-II	Call
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Maxtor 420MB IDE	185
Maxtor 540MB IDE	179
Western Digital 850MB IDE	205
Western Digital 1.2GB IDE	265
Quantum 8ms 2.0GB	800
HP 2.0GB	700
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486DX4/DX2 PCI w/256K w/IDE IO	105
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486SLC2-66 VLB	135
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72Pin 4x32 Simm, 70ns	489

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Maxiswitch 101 Enhanced	35
Fujitsu 101 Enhanced	38
Focus 2001 101 Enhanced	32
Focus 9000 101 Enhanced	48
MicroSoft Natural Key	88

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ViewSonic V17G 17", 1280x1024 .28	678
ViewSonic V15 15", 1280x1024 .28, 60Hz	388
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MAG MXP-17F, 1280x1024, .26	895
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MAG DX-15F, 1280x1024, .28	338
CTX 1565GM 15", 1024x768 .28	335
CTX 1451C 14", 1024x768 .28	235
Acer 76I 17", 1280x1024 .22NI, Digital	565
Acer 56L 15", 1280x1024 .28 Digital	338
Acer 34T 14" , 1024x768 .28NI, EPA	229
NEC XE21, 1280x1024 .28, 60Hz, LR	1928
NEC XP21, 1680x1200 .28, 70Hz, LR	2375
NEC XE17, 1024x768 .28, 76Hz, LR	998
NEC XP17, 1280x1024 .28, 76Hz, LR	1238
NEC XE15, 1024x768 .28, 76Hz, LR	548
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Colorado PowerDat 4.0GB EXT, SCSI	1378
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Colorado Jumbo 350MB EXT.QIC-80	339
Conner 420MB INT. QIC-80	140
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Conner 850MB INT.	295
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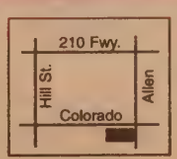

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- 101-Key Keyboard
- Hi-Resolution Mouse
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- Sound Blaster 16 Vibra Card
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Toshiba 4X SCSI-2	$ 299
NEC 6X	$ Call
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Panasonic 4X IDE	$ 139
Mitsumi 4X IDE	$ 149
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28.8 Internal Voice/Fax, V.34	$ 169
US Robotics 14.4 Internal	$ 89
US Robotics 14.4 External	$ 99
US Robotics 28.8 Internal	$ 189
US Robotics 28.8 External	$ 209

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101-Key Keyboard	$ 15
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Focus 2001 Keyboard	$ 29
Focus 9000 Keyboard	$ 45
3 Button Mouse	$ 8
Trackball	$ 25
Logitech Mouseman	$ 45
Logitech Mouseman Bus	$ 59
Logitech Trackman	$ 69
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Sound Blaster 16 SCSI-2	$ 105
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Acer 55 15" 1280x1024 .28 NI	$ 289
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Acer 76I 17" 1280x1024 .27 NI, Digital	$ 579
KFC 1511 15" 1280x1024 .28 NI	$ 289
KFC 1507 15" 1280x1024 .28 NI, Digital	$ 329
AuroraView 14" 1024x768 .28 NI	$ 205
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- PCI Graphics Accelerator w/1MB
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- 1 EPP/ECP Parallel Port
- 101-Key Keyboard
- Hi-Resolution Mouse
- Medium Tower Case w/230W

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Pentium-90	$1599
Pentium-100	$1699
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- 4X CD-ROM Drive
- Sound Blaster 16 Vibra Card
- 120W Hi-Fi Stereo Speakers
- 14 Popular CD Titles
- 2 x Hi-Speed 16550 UART Serial Port
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- 101-Key Keyboard
- Hi-Resolution Mouse
- Medium Tower Case w/230W

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- Sound Blaster 16 Vibra Card
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- 14 Popular CD Titles
- 2 x Hi-Speed 16550 UART Serial Port
- 1 EPP/ECP Parallel Port
- 101-Key Keyboard
- Hi-Resolution Mouse
- Full Tower Case w/230W

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Pentium-100	$2379
Pentium-120	$2599
Pentium-133	$2749

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- PCI Diamond Stealth64 Video w/2MB
  w/Full Screen, Playback Video MPEG
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- 120W Hi-Fi Stereo Speakers
- 14 Popular CD Titles
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- 101-Key Keyboard
- MicroSoft Mouse V2.0
- Full Tower Case w/230W

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Pentium-100	$3879
Pentium-120	$4099
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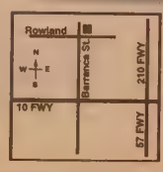

Basic PRIVACY Procedures

Steps You Might Want To Take To Achieve An Appropriate Level Of PRIVACY And SECURITY

By Robert Moskowitz

Within the last few years, at least a portion of the American population has begun to voice more support for privacy protection than ever before. People from all parts of the political spectrum are talking, and even working together to fight what they perceive as the current "anti-privacy" trend in our country, and around the world.

Americans are generally proud of our long tradition of privacy and freedom from unnecessary surveillance and "search." But many people feel that today's legal system has allowed privacy to be significantly eroded.

In their view, Europe has moved far ahead of us in establishing unified data protection authorities and passing laws protecting privacy far more stringently that in the United States. There may be a good deal of truth to this allegation.

Legal Protections

The Privacy Act of 1974, for example, protects only against the abuse of records maintained by US government agencies on American citizens. It says nothing about privately held records or information concerning citizens of foreign countries. And many say there is precious little enforcement of this statute, in any case.

That's one reason there is a steady stream of legal battles about the legality and propriety of selling motor vehicle databases, which contain information collected by public agencies about such private matters as your address, age, height, weight, eyesight, health, and the kind of car you own.

Medical, insurance, and employment records are also spottily protected, and the protections are unevenly enforced.

The Electronic Communications Privacy Act of 1986 set a new standard by allowing telephone companies to sell their records of our phone calls to almost anyone who wants them.

In this milieu, people are understandably concerned not only that agencies of the government might be logging your email messages or recording your cellular telephone calls, but that for-profit corporations might be collecting, correlating, and selling detailed dossiers on you without any concern about why or how they will be used.

New Threats

With the advent of the Internet, and its phenomenal popularity, our society is developing a need for an entirely new mechanism to monitor and protect so-called "transactional data" and other records that can be correlated to reveal details of an individual's most intimate preferences, habits, and behaviors.

The future could be far more frightening, with new technologies making it possible for intruders to track not only your spending habits, but combinations of your interests in political issues, your voting patterns, and your business relationships.

Is anyone surprised there are proposals for the Federal Bureau of Investigation to collect and maintain a national database of DNA identification records?

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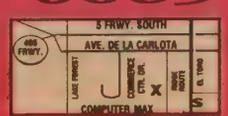

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Basic Privacy Procedures *continued...*

It's not difficult to imagine a scenario in which corporate or government interests lead to routine monitoring of these matters for millions of citizens, and on that basis to selective support of, or opposition to, individuals' day-to-day activities.

Levels Of Privacy And Security

All this helps explain why uncounted thousands of people are struggling to overcome the "security is not important" training from their formative years—akin to growing up in a rural community where everyone goes to sleep each night with all their doors and windows unlocked—and trying to replace it with simple, practical habits to help maintain their personal privacy in an increasingly voyeuristic world.

Before we launch into the details however, let me define five levels of need for privacy and security.

Level One: You're trying to arrange a private one-time meeting, perhaps for sex, perhaps for a business deal, or for something else. You can remember all the details, so you have no need to keep records or correspondence.

Level Two: You're trying to manage a private ongoing relationship, perhaps for sex, perhaps for business, or for something else. Because there's far more data than you can remember, you need to protect some records. Also, you want to maintain a semiregular flow of private and secure information to and from your "partner" in this enterprise.

Level Three: You're conducting normal, legal business activities that you want to keep private and secure—perhaps from competitors, perhaps from unknown others who might gain by knowing the details of your thoughts, decisions, and actions. Now you need to maintain the privacy and security of extensive written records, business transactions, and regular communications. But for the business to make sense and earn a profit, your privacy and security efforts must remain cost-effective and personally convenient.

Level Four: You're conducting some form of illegal business that you definitely want to keep secret from both random and purposeful prying eyes. Your activities involve many of the same procedures as for Level Three, except that privacy and security are far more important.

Level Five: You're actively involved in fomenting armed revolution and/or acts of terrorism. Your activities involve many of the same procedures as for Level Three and Four, but privacy and security are now of paramount importance, regardless of cost or inconvenience.

Be warned: My thinking runs only to Level Three. Anyone who is interested in Level Four or Five privacy and security will not find useful tips or techniques here.

Given that we're focused on practical, cost-effective techniques for maintaining privacy and security that's sufficient for ordinary acts of a personal or legal business nature, I'll try to provide a breakdown of some steps you might want to take to achieve an appropriate level of privacy and security.

Let's begin with some of the simpler concerns:

Telephone Privacy

Nautilus is a program that lets you enjoy encrypted voice telephone conversations with other people. There's no special equipment required. All you need is a personal computer (386/25 or faster PC with Sound Blaster-compatible sound board, or Sun Sparcstation) and a high-speed modem. Speech quality is acceptable at 9600bps and reasonably good at 14.4Kbps. Currently, the system won't work at slower modem speeds.

continued on page 198

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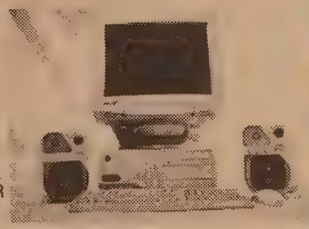

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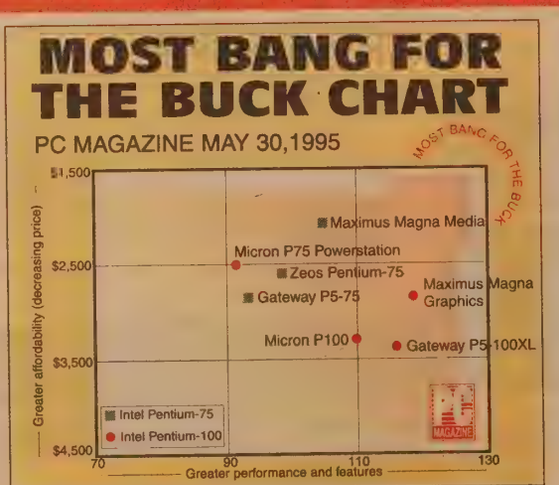

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1 MB PCI SVGA Card
14" SVGA Monitor
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Lifetime Labor Warranty
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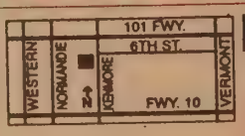

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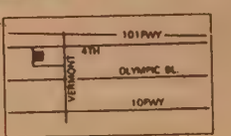

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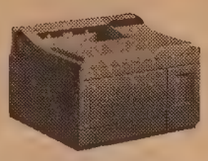

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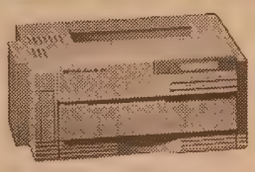

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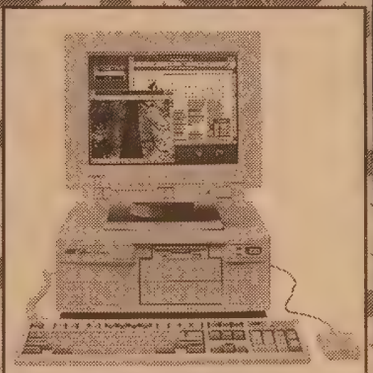

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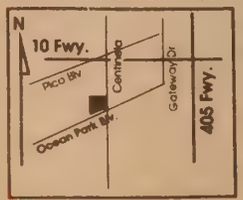

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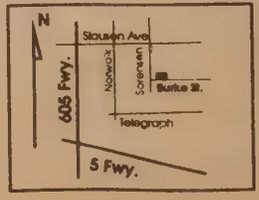

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- PCI Diamond Stealth VIDEO 64 (2MB DRAM)
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- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Quad Speed (4X) CD-ROM Drive
- Creative Labs Sound Blaster Vibra 16
- 21 Popular CD Software Titles
- 130 Watt Hi-Fi Stereo Speakers with Earphone
- Mid Tower Case (7 Bays & 230W UL PS)

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- Plug & Play BIOS / 256K WB Fast Cache
- 16MB RAM (Expandable to 128MB)
- 1.2GB 10ms Enhanced IDE Hard Drive
- PCI Enhanced IDE HD Controller
- PCI Diamond Stealth VIDEO 64 (2MB DRAM)
- 17" MAG DX17F .26mm Flat Screen Monitor
- Two High Speed Serial Ports (16550 UART) & 1 Parallel (EPP/ECP) & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Quad Speed (4X) CD-ROM Drive
- Creative Labs Sound Blaster Vibra 16
- 21 Popular CD Software Titles
- 130 Watt Hi-Fi Stereo Speakers with Earphone
- Mid Tower Case (7 Bays & 230W UL PS)

Pentium 75	$2219
Pentium 90	$2269
Pentium 100	$2319
Pentium 120	$2599
Pentium 133	$2749

Triton Media Pro

- Intel Triton chipset and Pentium™ CPU
- Plug & Play BIOS / 256K WB Fast Cache
- 8MB RAM (Expandable to 128MB)
- 850MB 11ms Enhanced IDE Hard Drive
- PCI Enhanced IDE HD Controller
- PCI Diamond Stealth VIDEO 64 (2MB DRAM)
- 15" Non-Interlaced .28mm Flat Screen Monitor
- Two High Speed Serial Ports (16550 UART) & 1 Parallel (EPP/ECP) & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Quad Speed (4X) CD-ROM Drive
- Creative Labs Sound Blaster Vibra 16
- 21 Popular CD Software Titles
- 130 Watt Hi-Fi Stereo Speakers with Earphone
- Mid Tower Case (7 Bays & 230W UL PS)

Pentium 75	$1619
Pentium 90	$1669
Pentium 100	$1719
Pentium 120	$2099
Pentium 133	$2149

PCI Media Pro

- Intel Pentium™ CPU
- 256K WB Fast Cache
- 8MB RAM (Expandable to 128MB)
- 850MB 11ms Enhanced IDE Hard Drive
- PCI Enhanced IDE HD Controller
- PCI SVGA Graphics Accelerator (1MB DRAM)
- 15" Non-Interlaced .28mm Flat Screen Monitor
- Two High Speed Serial Ports (16550 UART) & 1 Parallel (EPP/ECP) & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Quad Speed (4X) CD-ROM Drive
- Creative Labs Sound Blaster Vibra 16
- 21 Popular CD Software Titles
- 130 Watt Hi-Fi Stereo Speakers with Earphone
- Mid Tower Case (7 Bays & 230W UL PS)

Pentium 75	$1509
Pentium 90	$1559
Pentium 100	$1609
Pentium 120	$1889
Pentium 133	$2039

PCI Best Buy

- 486 CPU or Intel Pentium™ CPU
- 256K WB Fast Cache
- 8MB RAM (Expandable to 128MB)
- 650MBWestern Digital Enhanced IDE Hard Drive
- PCI Enhanced IDE HD Controller
- PCI SVGA Graphics Accelerator (1MB DRAM)
- 15" Non-Interlaced .28mm Flat Screen Monitor
- Two High Speed Serial Ports (16550 UART) & 1 Parallel (EPP/ECP) & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Mid Tower Case (7 Bays & 230W UL PS)

AMD 486DX4/100	$1069
Intel 486DX2/66	$1069
Intel 486DX4/100	$1149
Pentium 75	$1219
Pentium 90	$1269
Pentium 100	$1319
Pentium 120	$1599

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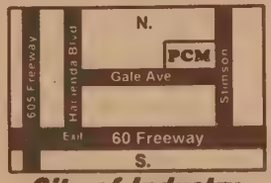

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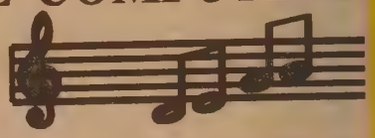

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POWER INFI-2000 P5-8M

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **8MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 850MB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 1MB Video DRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 1398
PENTIUM 90MHz	$ 1498
PENTIUM 100MHz	$ 1598
PENTIUM 120MHz	$ 1798
PENTIUM 133MHz	$ 1948

INFINITY-2000™

POWER INFI-2000 P5-12D

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **8MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 1.2GB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video DRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 1528
PENTIUM 90MHz	$ 1628
PENTIUM 100MHz	$ 1728
PENTIUM 120MHz	$ 1928
PENTIUM 133MHz	$ 2078

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POWER INFI-2000 P5-16M

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 1.2GB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 2198
PENTIUM 90MHz	$ 2298
PENTIUM 100MHz	$ 2398
PENTIUM 120MHz	$ 2598
PENTIUM 133MHz	$ 2748

INFINITY-2000™

POWER INFI-2000 P5-16SI

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **CONNER 1.0GB SCSI-2** Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- Built-in Adaptec 2940 PCI Fast SCSI
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Mid Tower Case w/ UL 230W Power Supply
- Fujitsu 101 Enhanced Keyboard

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 2478
PENTIUM 90MHz	$ 2578
PENTIUM 100MHz	$ 2678
PENTIUM 120MHz	$ 2878
PENTIUM 133MHz	$ 3028

INFINITY-2000™

POWER INFI-2000 CX4-8M

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **8MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 850MB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 1MB Video DRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

POWER INFI-2000 CX4 (MULTIMEDIA)
- *Creative Labs Sound Blaster 16MCD w/ ASP*
- *Quad Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *16 CD-Titles*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 1698
PENTIUM 90MHz	$ 1798
PENTIUM 100MHz	$ 1898
PENTIUM 120MHz	$ 2098
PENTIUM 133MHz	$ 2248

INFINITY-2000™

POWER INFI-2000 CX4-12D

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **8MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 1.2GB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video DRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

POWER INFI-2000 CX4 (MULTIMEDIA)
- *Creative Labs Sound Blaster 16MCD w/ ASP*
- *Quad Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *16 CD-Titles*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Free mouse

PENTIUM 75MHz	$ 1798
PENTIUM 90MHz	$ 1898
PENTIUM 100MHz	$ 1998
PENTIUM 120MHz	$ 2198
PENTIUM 133MHz	$ 2348

INFINITY-2000™

POWER INFI-2000 CXT4-16M

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 1.2GB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- 101 Enhanced Keyboard

POWER INFI-2000 CXT4 (MULTIMEDIA)
- *Creative Labs Sound Blaster 16MCD w/ ASP*
- *Toshiba IDE Quad Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

PENTIUM 75MHz	$ 2228
PENTIUM 90MHz	$ 2328
PENTIUM 100MHz	$ 2428
PENTIUM 120MHz	$ 2628
PENTIUM 133MHz	$ 2778

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POWER INFI-2000 CXT4-16SI

- Intel *New* TRITON CHIPSET PENTIUM Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Conner 1.0GB SCSI-2** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- Built-in Adaptec 2940 PCI Fast SCSI Controller
- **15" Non-Interlaced** SVGA Color Monitor .28
- Mid Tower Case w/ UL 230W Power Supply
- Fujitsu 101 Enhanced Keyboard

POWER INFI-2000 CXT4SI (MULTIMEDIA)
- *Creative Labs Sound Blaster 16MCD w/ ASP*
- *Toshiba 3601 4X SCSI-2 CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

PENTIUM 75MHz	$ 2678
PENTIUM 90MHz	$ 2778
PENTIUM 100MHz	$ 2878
PENTIUM 120MHz	$ 3078
PENTIUM 133MHz	$ 3228

INFINITY-2000™

POWER INFI-2000 CXN6-16Si

- Intel ZAPPA Triton Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Western Digital 1.2GB** IDE Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- Adaptec 2940 PCI Fast SCSI Controller
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Full Tower Case w/ UL 250W Power Supply
- Fujitsu 101 Enhanced Keyboard

POWER INFI-2000 CXN6 (MULTIMEDIA)
- *Creative Labs Sound Blaster AWE-32*
- *NEC SCSI Sixth Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

PENTIUM 75MHz	$ 3298
PENTIUM 90MHz	$ 3398
PENTIUM 100MHz	$ 3498
PENTIUM 120MHz	$ 3698
PENTIUM 133MHz	$ 3898

INFINITY-2000™

POWER INFI-2000 CXP6-16Si

- Intel ZAPPA Triton Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **16MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **2.1GB SCSI-2** Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- Adaptec 2940 PCI Fast SCSI Controller
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Full Tower Case w/ UL 250W Power Supply
- Fujitsu 101 Enhanced Keyboard

POWER INFI-2000 CXA6 (MULTIMEDIA)
- *Creative Labs Sound Blaster AWE-32*
- *PLEXTOR SCSI Sixth Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

PENTIUM 75MHz	$ 3998
PENTIUM 90MHz	$ 4098
PENTIUM 100MHz	$ 4198
PENTIUM 120MHz	$ 4398
PENTIUM 133MHz	$ 4548

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POWER INFI-2000 CXP6-32Si

- Intel ZAPPA Triton Mainboard
- Intel Pentium Chip Processor
- EPA "Energy Star" Power Management
- 256K Ultrafast write back cache
- **32MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **Fujitsu 1.0GB Fast & Wide SCSI** 9ms Hard Drive
- **Diamond Stealth 64** *PCI w/ 2MB Video VRAM*
- Adaptec 2940W Fast Wide SCSI Controller (20MB/SEC.)
- *On Board PCI Bus Master IDE w/ Super Multi I/O (UARTs)*
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Full Tower Case w/ UL 250W Power Supply
- Fujitsu 101 Enhanced Keyboard

POWER INFI-2000 CXP6 (MULTIMEDIA)
- *Creative Labs Sound Blaster AWE-32*
- *PLEXTOR SCSI Sixth Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

PENTIUM 75MHz	$ 4498
PENTIUM 90MHz	$ 4598
PENTIUM 100MHz	$ 4698
PENTIUM 120MHz	$ 4898
PENTIUM 133MHz	$ 5048

INFINITY-2000™

TWIN POWER INFI-2000 CXP6-32Si

- EISA / PCI SMP Neptune Mainboard
- (2) Twin Pentium 100MHz Processor
- EPA "Energy Star" Power Management

Free 14.4 Modem

- 256K Ultrafast write back cache
- **32MB** 72 pins RAM exp. to 128MB
- NEC 1.4MB Drive
- **2.1GB SCSI** Hard Drive
- **Diamond Stealth 64** *PCI w/ 4MB Video VRAM*
- Adaptec 2940W Fast Wide SCSI Controller (20MB/SEC.)
- *2-Hi Speed (16350 Fast UARTs)*
- **MAG 17" DX17F .26 Flat Screen Digital Control (1280x1024)**
- Full Tower Case w/ UL 250W Power Supply
- Fujitsu 101 Enhanced Keyboard

TWIN POWER INFI-2000 CXP6 (MULTIMEDIA)
- *Creative Labs Sound Blaster AWE-32*
- *PLEXTOR SCSI Sixth Speed CD-ROM Drives*
- *160Watts HI-FI Amplified Speakers*
- *Microsoft Home CD Package, Microsoft Encarta '95 - Microsoft Works - Microsoft Money - Microsoft Entertainment Pack*

Windows 95 w/Manuals or
Dos 6.22 & Windows 3.11 w/ manuals & diskettes

Microsoft Mouse

$ 5698

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BASIC-S1 SERIES

- △ Infinity 2000™ 486 PCI or VLB Mainboard
- △ 486 Processor
- △ Math Coprocessor Built In
- △ 256K Ultrafast write back cache
- ^ **4MB** 72 pins RAM exp. to 128MB
- △ NEC 1.4MB Drive
- △ **Western Digital 630MB** IDE Hard Drive
- △ Windows Accelerator w/1MB
- △ 2 Serial, 1 Parallel, 1 Game Port
- △ 14"Non-Interlaced SVGA Color Monitor .28
- △ Deluxe Mid Tower Case w/ UL 230W Power Supply
- △ 101 Enhanced Key Board

Windows 95 w/Manuals or Dos 6.22 & Windows 3.11 w/ manuals & diskettes — Free mouse

AMD DX2-66MHz	$ 898
INTEL DX2-66MHz	$ 948
AMD DX4-100MHz	$ 958
INTEL DX4-100MHz	$ 1028

INFINITY-2000™

CLASSIC CX2-4M SERIES

- △ Infinity 2000™ 486 PCI or VLB Mainboard
- ^ 486 Processor
- △ Math Coprocessor Built In
- △ 256K Ultrafast write back cache
- △ **4MB** 72 pins RAM exp. to 128MB
- △ NEC 1.4MB Drive
- △ **Western Digital 630MB** IDE Hard Drive
- ^ Windows Accelerator w/1MB
- ^ 2 Serial, 1 Parallel, 1 Game Port
- △ 14"Non-Interlaced SVGA Color Monitor .28
- ^ Deluxe Mid Tower Case w/ UL 230W Power Supply
- △ 101 Enhanced Key Board

CLASSIC-CX2 (MULTIMEDIA)

- Creative Labs Sound Blaster 16MCD w/ ASP
- Double Speed CD-ROM Drives
- 160Watts HI-FI Amplified Speakers
- 16 CD-Titles

Windows 95 w/Manuals or Dos 6.22 & Windows 3.11 w/ manuals & diskettes — Free mouse

AMD DX2-66MHz	$ 1098
INTEL DX2-66MHz	$ 1148
AMD DX4-100MHz	$ 1158
INTEL DX4-100MHz	$ 1228

INFINITY-2000™

CLASSIC CX2-8M SERIES

- △ Infinity 2000™ 486 PCI or VLB Mainboard
- △ 486 Processor
- △ Math Coprocessor Built In
- ^ 256K Ultrafast write back cache
- ^ **8MB** 72 pins RAM exp. to 128MB
- △ NEC 1.4MB Drive
- ^ **Western Digital 850MB** IDE Hard Drive
- ^ Windows Accelerator w/1MB
- △ 2 Serial, 1 Parallel, 1 Game Port
- △ 15"Non-Interlaced SVGA Color Monitor .28
- △ Deluxe Mid Tower Case w/ UL 230W Power Supply
- △ 101 Enhanced Key Board

CLASSIC-CX2 (MULTIMEDIA)

- Creative Labs Sound Blaster 16MCD w/ ASP
- Double Speed CD-ROM Drives
- 160Watts HI-FI Amplified Speakers
- 16 CD-Titles

Windows 95 w/Manuals or Dos 6.22 & Windows 3.11 w/ manuals & diskettes — Free mouse

AMD DX2-66MHz	$ 1348
INTEL DX2-66MHz	$ 1398
AMD DX4-100MHz	$ 1408
INTEL DX4-100MHz	$ 1478

INFINITY-2000™

CLASSIC CX4-8M SERIES

- △ Infinity 2000™ 486 PCI or VLB Mainboard
- △ 486 Processor
- △ Math Coprocessor Built In
- ^ 256K Ultrafast write back cache
- △ **8MB** 72 pins RAM exp. to 128MB
- △ NEC 1.4MB Drive
- △ **Western Digital 850MB** IDE Hard Drive
- △ Windows Accelerator w/1MB
- △ 2 Serial, 1 Parallel, 1 Game Port
- △ 15"Non-Interlaced SVGA Color Monitor .28
- ^ Deluxe Mid Tower Case w/ UL 230W Power Supply
- △ 101 Enhanced Key Board

CLASSIC-CX4 (MULTIMEDIA)

- Creative Labs Sound Blaster 16MCD w/ ASP
- Quad Speed CD-ROM Drives
- 160Watts HI-FI Amplified Speakers
- 16 CD-Titles

Windows 95 w/Manuals or Dos 6.22 & Windows 3.11 w/ manuals & diskettes — Free mouse

AMD DX2-66MHz	$ 1418
INTEL DX2-66MHz	$ 1468
AMD DX4-100MHz	$ 1478
INTEL DX4-100MHz	$ 1548

INFINITY-2000™

CASES

TOWER CASE with Power Supply

- 540D Desktop Case w/ 230W P/S — $ 44.00 (Three-5 1/4" slots & one-3 1/2" slot)
- 757A Full Twr Case w/ 250W P/S — $ 72.00 (Six-5 1/4" slots & two-3 1/2" slots)
- 757B Mid Twr Case w/ 230W P/S — $ 52.00 (Three-5 1/4" slots & two-3 1/2" slots)
- 757C Deluxe Mid Twr Case w/ 230W P/S — $ 42.00 (Three-5 1/4" slots & two-3 1/2" slots)
- 757D Mini Twr Case w/ 230W P/S — $ 34.00 (Two-5 1/4" slots & two-3 1/2" slots)

INFINITY-2000™

KEYBOARDS

- CHICONY 101 Enhanced Keyboard — $ 15.00
- Focus 2001 Keyboard w/ Cover — $ 29.00
- Focus 7000 Keyboard w/ Trackball — $ 37.00
- Focus 8000 Keyboard w/ Calculator — $ 39.00
- Focus 9000 Keyboard w/ Programable Calculator — $ 43.00
- Fujitsu 4720 Click Keyboard — $ 38.00
- Microsoft Natural Keyboard w/ Programable — $ 79.00

INFINITY-2000™

HARD DISK DRIVES

CONNER Cabo Series 64K Cache 3600RPM

- CFS850A-850MB 15ms IDE — $189.00
- CFS1275A-1.2GB 15ms IDE — $249.00

MAXTOR 7000 Series 64K Cache 3551RPM

- 540AV-540MB 13ms IDE — $169.00
- 750AV-850MB 12ms IDE — $189.00
- 71260A-1.2GB 12ms IDE (256K Cache 4500RPM) — $249.00

WESTERN DIGITAL Caviar Series 64K Cache 4500RPM

- WDAC2630-630MB 5.7ms IDE — $172.00
- WDAC2850-850MB 10ms IDE — $198.00
- WDAC31200-1.2GB 10ms IDE — $269.00

INFINITY-2000™

VIDEO CARDS

DIAMOND STEALTH VIDEO MULTIMEDIA

- Stealth DRAM 64-bit graphics accelerator VESA Local Bus w/ 2MB — $165.00
- Stealth DRAM 64-bit graphics accelerator PCI w/ 1MB or 2MB — $118.00 / $155.00
- Stealth VRAM 64-bit graphics accelerator PCI w/ 2MB or 4MB — $259.00 / $389.00

TRIDENT VIDEO CARDS

- Trident 9000 ISA w/ 512K — $ 37.00
- Trident 9440 VLB w/ 1MB — $ 69.00
- Trident 9440 PCI w/ 1MB — $ 69.00

INFINITY-2000™

PRINTERS

- Panasonic 2120 Quiet — $175.00
- Hewlett Packard 540 — $245.00
- Hewlett Packard 660C — $398.00
- Hewlett Packard 4L — $495.00
- Hewlett Packard Scanjet 3P — $319.00
- Hewlett Packard Officejet — $545.00
- Hewlett Packard 4+ — $1358.00
- Color Kits for HP 540 — $ 39.00
- Additional Memory for Hewlett Packard 4L — $ 69.00

Call For Supplies Not Listed.

INFINITY-2000™

TAPE BACK-UP

COLORADO TAPE BACKUP

- Colorado DJ-30 internal 350MB — $129.00
- Colorado T-1000 internal 850MB — $179.00

CONNER TAPE BACKUP

- Conner 420MB internal w/ 1 cartridge — $139.00
- Conner 850MB internal w/ 1 cartridge — $199.00

INFINITY-2000™

MICROPROCESSORS / MEMORY

MICROPROCESSORS

- Intel Pentium 133MHz — CALL
- Intel Pentium 120MHz — CALL
- Intel Pentium 100MHz — CALL
- Intel Pentium 90MHz — CALL
- Intel Pentium 75MHz — $199.00
- Intel DX4-100MHz — $179.00
- Intel DX2-66MHz — $119.00
- AMD DX4-100MHz — $129.00
- AMD DX2-66MHz — $ 99.00

MEMORY

- Simm 1x3 (1MB) 30-pin — $ 35.00
- Simm 4x3 (4MB) 30-pin — $137.00
- Simm 1x32 (4MB) 72-pin — $139.00
- Simm 2x32 (8MB) 72-pin — $269.00
- Simm 4x32 (16MB) 72-pin — $489.00
- Simm 8x32 (32MB) 72-pin — $989.00

INFINITY-2000™

CD-ROM DRIVES / SOUND CARDS

CD-ROM Internal Drives

- Panasonic 2X-562B IDE 300KB per sec — $ 69.00
- Teac 4X-55A IDE 600KB per sec — $149.00
- Toshiba 4X-3502 IDE 600KB per sec — $179.00
- Toshiba 4X-3501 SCSI 600KB per sec — $269.00
- Toshiba 4.0X-3601 SCSI 600KB per sec — $289.00
- Plextor 4X-SCSI OEM 600KB per sec — $499.00
- NEC 6X-512 SCSI 900KB per sec — $389.00

SOUND CARDS

- Creative Lab 16MCD ASP OEM — $ 89.00
- Creative Lab SCSI-2 OEM — $109.00
- Creative Lab AWE32 ASP & Wave MCD — $255.00
- Creative Vibra 16MCD IDE OEM — $ 72.00

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MICE

- Microsoft Serial Mouse — $ 24.00
- 3-Buttons Serial Mouse — $ 8.00

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MOTHERBOARDS

- Intel Triton ZAPPA PCI w/ 256K — $239.00
- Intel Triton Chipset PCI w/ 256K OEM — $168.00
- IBM SLC2-66MHz w/ CPU — $135.00
- Amtron 6900 486DX4-VLB w/ 256K — $ 99.00
- VIA 486DX4-VLB w/ 256K 72 pin — $ 99.00
- UMC 486DX4-PCI w/ 256K 72 pin — $129.00
- 386DX-40 Built-in CPU w/ 128K — $ 89.00

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MONITORS

SHAMROCK MONITORS

- Shamrock 14" SRC 1452 (1024x768) .28 — $225.00
- Shamrock 15" SRC 1502 (1280x1024) .28 — $305.00
- Shamrock 17" 17036 (1280x1024) .28 — $549.00

MAG MONITORS

- MAG 17" DX17F .26 — $629.00
- MAG 15" DX15F .28 (1280X1024) — $349.00

VIEWSONIC MONITORS

- Viewsonic 15" .28 (1280x1024) — $409.00
- Viewsonic 17" .27 (1600x1280) — $799.00

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MODEMS

- 14.4 Internal — $ 55.00
- Sportster 28.8 Internal Data/Fax V.34 — $129.00
- Sportster 28.8 Internal Data/Fax w/ VOICE — $189.00
- US Robotics Sportster 14.4 Internal Data/Fax — $ 89.00
- US Robotics Sportster 28.8 Internal Data/Fax w/ Voice — $199.00
- US Robotics Sportster 28.8 External Data/Fax — $219.00

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Product Spotlight

Updates

Ashlar is shipping **Vellum 3D v2.7** for Macintosh and Power Macintosh, the latest version of its design and drafting software. The price is $1495. Ashlar Inc., 1290 Oakmead Pkwy., Suite 218, Sunnyvale, CA 94086. (408)746-1800.

Autodesk announced **WHIP**, a new high-performance graphics driver for AutoCAD Release 13 for Windows. It is available free to registered AutoCAD R13 users. Autodesk, Inc., 111 McInnis Pkwy., San Rafael, CA 94903. (415)507-6440.

Blue Sky Software is shipping **WinHelp Office 1.5**. Among other upgrades, the new version includes the Moving to WinHelp '95 porting tool to automatically move Windows 3.x Help systems to Windows 95. Available for $599. Blue Sky Software Corp., 7486 La Jolla Blvd., Suite 3, La Jolla, CA 92037. (619)459-6365.

Compaq has extended its **Compaq SmartStation value promotion** through December 21, 1995, or while supplies last. With the purchase of the LTE Elite 4/50CX Model 340 or the LTE Elite 4/75CX Models 340 or 510 customers will receive the SmartStation expansion base free. Compaq Computer Corp., P.O. Box 692000, Houston, TX 77269-2000. 1-800-345-1518 or *http://www.compaq.com* .

DataViz has released **Conversions Plus v3.0** for Windows. The new version includes many new translators, enhanced graphic capabilities, and a new file preview feature. It is available for $149, or $39.95 to upgrade from earlier versions. DataViz, 55 Corporate Dr., Trumbull, CT 06611. 1-800-733-0030.

Interactive Image Technologies released **Electronics Workbench v4**, the latest version of its mixed-mode simulation software tool designed to help students design and troubleshoot circuits. The regular price is $299; upgrade and student price is $79. (Mac version available in September.) Interactive Image Technologies, 111 Peter St., Suite 801, Toronto, Ontario, Canada M5V-2H1. 1-800-263-5552 or *ewb@interactiv.com* .

Knowledge Revolution is now shipping **Working Model v3.0**, the latest version of its motion simulation program for design engineering and analysis. Knowledge Revolution, 66 Bovet Rd., Suite 200, San Mateo, CA 94402. 1-800-766-6615.

Spider Island Software is upgrading TeleFinder BBS with a **new version of Mail Server** that supports Internet mail using SMTP. Mail Server 2.0 is available free to current users of TeleFinder 3.5. Spider Island Software, One Venture, Suite 230, Irvine, CA 92718. (714)453-8095, BBS (714)453-8190, telnet *spiderisland.com:1474* .

State of the Art released **M•A•S 90 Level 2.0**. The upgrade includes the new Material Requirements Planning module as well as enhancements and upgrades to most other modules. The MRP module is $1999, others range from $799 to $1599. State of the Art, Inc., 56 Technology, Irvine, CA 92718. (714)753-1222.

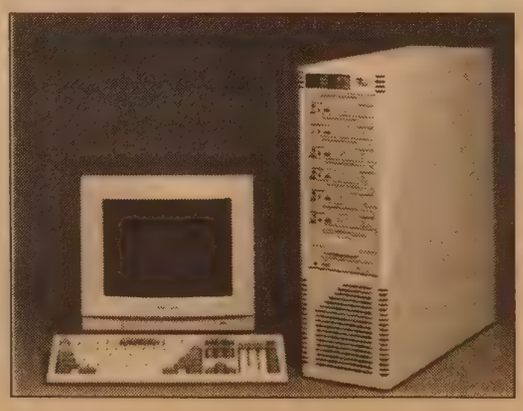
Symantec is offering a **scan-only version of Norton AntiVirus for Windows 3.1 free** on CompuServe through September 28. It is located in the NCSA Virus Awareness Day forum; type GO VIRUSDAY.

Trend Micro Devices is offering **free virus detection software** via the World Wide Web. This will detect the new virus that can infect Microsoft Word 6 files under Windows 3.1, Windows 95, and Macintosh operating systems. The virus scanner is available at *http://www.teleport.com/~trend/main.htm* .

Product Announcements

CD-ROM Hardware

CDR-EXPRESS



The new CDR-EXPRESS offers an integrated hardware and software system for duplicating recordable compact disks. This versatile one-cabinet turnkey solution is compatible with any operating system. The two-drive configuration duplicates and verifies as many as six full disks per hour, but can be expanded, one drive at time, up to six Yamaha drives producing up to eighteen disks per hour. CDR-EXPRESS performs

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(add-ons to any USM Base System)

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Conner 1.3GB Filepro Advantage
(CFA1275A)
add $239!!

Sony Quad Multimedia Kit
Sony 4x IDE CD-ROM
16-bit Stereo Sound Card
Labtec Stereo Speakers
add $249!!

Why the Mach XII?
Fastest 64-bit Pentium - Triton Chipset!

- USDesign Technologies' Mach XII Motherboard - 2 year warranty!
- Upgradeable to 133MHz, 128MB RAM, 1MB Cache Memory!
- Supports EDO DRAM memory!
- Anti Virus and "Green" features, support for Large Drives!
- Intel Triton Chipset - the fastest Pentium Chipset!
- 8 Slots: 4 Bus Mastering PCI Slots, 4 ISA 16-bit
- Enhanced IDE Controller - Up to 4 IDE Devices (HDD, CD, etc)!
- 2 High Speed 16C550 UART Serial Ports, 1 Enhanced Parallel Port
- 256KB Write Back Level 2 Cache Memory
- Ball-bearing fan - 2 year warranty, 50,000 MTBF!
- High Quality 2x Zinc Plated Case with 250W UL Listed Power Supply

Base Pentium Systems (Intel CPUs)

Pentium 75MHz - $795
Pentium 90MHz - $895
Pentium 100MHz - $995
Pentium 120,133MHz - Call

Options/Add-ons

Customize your PC. Simply select from the list below the components that fit your requirements. (These prices are available only when purchased with Base Systems.)

Name Brand Memory

4MB SIMM (72-pin, 70ns)	135
8MB SIMM (72-pin, 70ns)	265
16MB SIMM (72-pin, 70ns)	475

* Note: 64-bit Pentium Computers require SIMMs to be added in matched pairs.

Hard Disk Drives

Conner 420MB IDE (CFS425A)	139
Conner 540MB IDE (CFS540A)	159
Conner 850MB IDE (CFS850A)	189
Maxtor, WD and Seagate also available	Call

Floppy Disk Drives

TEAC 1.44	28
TEAC 1.2	39

Graphics Adapters

Cirrus Logic 1MB PCI	75
Tseng Labs 1MB PCI	95
Eagleview 1MB PCI	124
Diamond Stealth 64 1MB PCI	105
Diamond Stealth 64 Video 2MB DRAM PCI	149
Diamond Stealth 64 Video 2MB VRAM PCI	245
ATI Graphics Expression 2MB DRAM PCI	165
ATI WinTurbo 2MB VRAM PCI	240
ATI ProTurbo 2MB VRAM PCI	Call

Tape Backup Drives

HP/Colorado 350MB Internal Tape Backup	135
HP/Colorado 700MB Internal Tape Backup	185
HP/Colorado 800MB Internal Tape Backup	195

Monitors

Shamrock 14" Non Interlaced .28mm	210
Shamrock 15" Non Interlaced .28mm	295
Shamrock 15" Non Interlaced .28mm MPRII	305
Shamrock 17" Non Interlaced .28mm MPRII	535
Shamrock 20" Non Interlaced .28mm MPRII	1150
Shamrock 21" Non Interlaced .28mm MPRII	1450
CTX Monitors	Call
MAG Monitors	Call
NEC Monitors	Call
Viewsonic Monitors	Call

Modems

USRobotics 14.4 SI Internal FAX Modem	63
USRobotics 28.8 Internal FAX Modem	175

Keyboards

101 Enhanced	15
Keytronics 2000	22
Focus 2001	25
Fujitsu 4720	37
Microsoft Natural	85
Northgate 101	95

Sound Cards/CD-ROM

16-bit Stereo Sound Card	55
Sound Blaster 16 IDE	69
Sound Blaster AWE 32	Call
Sony 4x EIDE CD-ROM	170
Video Blaster SE100	245
Toshiba 4x EIDE CD-ROM	Call

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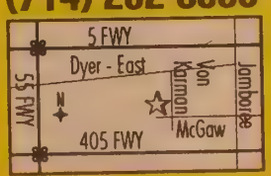

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USM San Francisco - (415) 952-5885

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New Products *continued...*

true bit-by-bit duplication, producing identical copies regardless of the target operating system. ($19,750) Todd Enterprises, Inc., 31 Water Mill Ln., Great Neck, NY 11021. 1-800-445-TODD.

MultiNET-CD Server

The MultiNET-CD Server is a plug-and-play quad-speed CD-ROM server for Novell NetWare (v3.11 or higher) networks, allowing users to share gigabytes of data and applications. All that is required is to attach the network's Ethernet cable to the server; then any user on the LAN can have access to up to seven CD-ROMs. There is no need for a dedicated file server, no SCSI cards to configure, and no complicated installation procedures. The included software gives complete drag-and-drop control for mounting CDs as NetWare volumes, selecting security options, and viewing drive information on a particular CD. (starts at $999) PARS International Computer, 22445 Foothill Blvd., Hayward, CA 94541. (510)733-0103.

Vectros 400 CD-ROM

The Vectros 400 is a new quad-speed CD-ROM drive with IDE/ATAPI interface and digital servo control system. An internal unit, the drive is designed for easy installation and is available separately or as a component of the Vectros multimedia upgrade kit. A built-in headphone jack enables users to listen to audio CDs without requiring a sound card. The drive also includes a power-saving feature that will power down the CD-ROM when it is not in active use. ($209) Elitegroup, 45225 Northport Ct., Fremont, CA 94538. (510)226-7333.

CD-ROM Titles

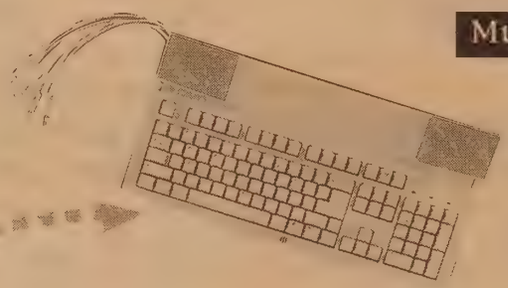
Apollo Interactive, The Complete Insider's Guide

This new CD-ROM for both Windows and Macintosh systems allows users to experience the historic Apollo space voyages at their desktop. Apollo Interactive combines actual video and detailed illustrations into an easy-to-use interactive package that enables users to learn about all the Apollo missions. The program includes a ride in the Lunar Rover of Apollo 16; actual crisis video taken from Apollo 13; detailed illustrations of how the Apollo rockets work; and animations, illustrations, and video from nearly all the missions. ($15) The WizardWorks Group, 3850 Annapolis Ln., Suite 100, Minneapolis, MN 55447-5443. (612)559-5140.

continued on page 206

MULTIMEDIA & WINDOWS KEYBOARD AVAILABLE NOW!

Official Approved by MicroSoft



Multimedia Keyboard

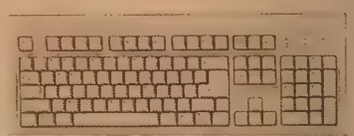
- Dual high quality speakers
- Master volume control(V/R)
- Built-in microphone function for Hands-free Operation, video conferencing and voice recording.
- **Plug and Play**

SK-810W KEYBOARD

- **Function**
  It is switchable and fully compatible with IBM/AT or PS/2. Compatible with Novell networks.
- **Keyboard Dimensions**

	Length	Depth	Height
Unpacked	460mm	172mm	43.5mm

- **EMI:** FCC class B, FTz
- **Safety:** UL, CSA, TUV, ± GS
- **Rubber Dome Key Switch**
- **Soft Tactile Feeling**

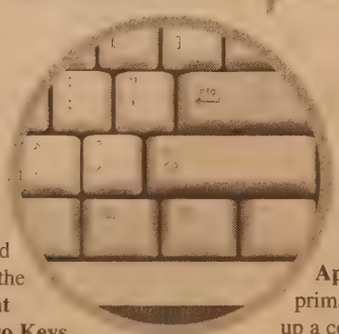


SK-710W KEYBOARD

- **Function**
  It is switchable and fully compatible with IBM/AT or PS/2. Compatible with Novell networks.
- **Keyboard Dimensions**

	Length	Depth	Height
Unpacked	460mm	174mm	29mm

- **EMI:** FCC class B, FTz
- **Safety:** UL, CSA, TUV, ± GS
- **Rubber Dome Key Switch**
- **Soft Tactile Feeling**



■ The second and third keys are the **Left and Right Windows Logo Keys.** These keys will set focus to the Windows 95 user interface.

■ The first key is the **Application Key.** The primary function is to bring up a context menu (pop-up) at the current selected position or mouse pointer.

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- Built-in CD-ROM Drive & AC adapter
- 16-Bit SoundBlaster, MIDI and WAV compatible
- 1 Type II or Type III PCMCIA slot

T2150

Processor	Screen	Hard Drive	Price
486DX4/75	10.4" Dual Scan	500MB	$2988
486DX4/75	10.4" Active	500MB	$3698

$4798

T4900 *Your dream Machine*

- 10.4" Active Matrix Color Display
- 772MB HD, 8MB/40MB
- 1 Type II & Type III PCMCIA slot
- Microsoft Sound System, built-in microphone audio output

T4700, T4800, T4850

Sight, Sound & processing Power

- Brilliant color display with local bus video
- 1 Type II or Type III PCMCIA Slot
- Microsoft Sound System, built-in microphone audio out port

Model	Processor	Screen	Hard Drive	Price
T4700	486DX2/50	9.5" Dual Scan	200MB	$2698
T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4" Active	772MB	3448

Portege T610/T3600/T3400

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- Ultra-portability at only 4.4 lbs
- 8MB RAM expanbdable to 24MB
- PCMCIA Type II Slot
- Intergrated Accutpoint Pointing device

Processor	Screen	Hard Drive	Price
Pentium 90	9.5" Active	720MB	$4448
486DX2/50	8.4" Active	500MB	3198
486SX/33	7.8" Active	120MB	1698

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- 2 TYpe II and Type III PCMCIA sot (T2100 series)
- 82-key key
- Accupoint pointing device

Model	Processor	Screen	Hard Drive	Price
T2100	486DX2/50	9.5" Mono	250MB	$1198
T2110	486DX4/75	10.4" Dual Scan	350MB	1998
T2110	486DX4/75	10.4" Active	350MB	2398
T2130	486DX4/75	10.4" Active	500MB	2998
T2130	486DX4/75	10.4" Dual Scan	500MB	2398
Pro Series				
T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	320MB	2698
T2450CT	486DX4/75	9.5" Active	320MB	3098
T2450CT	486DX4/75	9.5" Active	500MB	3198

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- NEW! Lithium Ion Battery for extra long life
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- 2 Type II or 1 Type III PCMCIA slot

Model	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	340MB	$2398
486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Active	510MB	3548
486DX4/75	10.4" Active	700MB	3798

AST Ascentia 950N

- LARGE 10.4" Dual Scan & TFT Displays
- 8MB RAM Standard
- Removable HD and Floppy Drive
- 2 Type II or 1 Type III PCMCIA slot

Processor	Screen	Hard Drive	Price
Pentium™75	10.4" Dual Scan	500MB	$3298
Pentium™75	10.4" Dual Scan	800MB	$3498
Pentium™75	10.4" Dual Scan	1.2GB	$3968
Pentium™75	10.4" Active	800MB	$4598
Pentium™75	10.4" Active	1.2GB	$4998

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• T3400/120	$998	• T1910/200	$998	•T1910CS/200	$1398
• T4800CT/500	$2798	• T4900CT/800	$4398	•T1950CS/200	$1798
• T1950CT/200	$1998	• T4600CT/320	$2398	•T1960CS/200	$1598
•T6400SXC/120	$CALL	• T6400DX2C/200	$CALL	•T6400MMC/200	$CALL

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HP OmniBook NoteBook PCs 4000 Series

Desktop to-go-PCs

Processor	Screen	Hard Drive	Price
486DX2/50	10.3" Dual Scan	260MB	$2298
486DX2/50	10.3" Dual Scan	340MB	2448
486DX2/50	10.3" Dual Scan	520MB	2798
486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3 Dual Scan	340MB	2878
486DX4/100	10.3 Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	3278
486DX4/100	10.4" Active	520MB	3478

HP OmniBook NoteBook PCs 600 Series
Lightweight with Performance

Processor	Screen	Hard Drive	Price
486DX2/50	8.5" Dual Scan	170MB	$2298
486DX2/50	8.5" Dual Scan	260MB	$2448
486DX4/75	8.5" Dual Scan	170MB	$2748
486DX4/75	8.5" Dual Scan	260MB	$2928

HP LaserJet Printers

HP LaserJet 4L	$498.00
HP LaserJet 5P	$848.00
HP LaserJet 5MP	$998.00
HP Scanners	
HP ScanJet3C, Color	$948.00
HP ScanJet3P, Greyscale	$448.00
HP DeskJet 1600C	$1298.00
HP InkJet Printers	
HP DeskJet 320	$298.00
HP DeskJet 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskJet 660C	$478.00
HP DeskJet 1600C	$1298.00
HP DeskWriter 320	$288.00
HP DeskWriter 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskWriter 660C	$478.00
HP DeskJet 1600CM	$1898.00
HP OfficeJet	$688.00
HP Fax 700	$578.00

Texas Instruments
Pentium Power With PCI Bus

TravelMate 5000

- PCI bus Architecture to optimize Pentium processor performance
- 2MB Video RAM
- 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	HardDrive	Price
Pentium74MHz	10.5" Dual Scan	500MB	$3848
Pentium 75MHz	10.4" Active	772MB	$4598

TravelMate 4000M

- Brilliant color display
- 2 Type II or 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$1998
486DX2/50	8.4" Active	455MB	2198
486DX4/75	9.5" Dual Scan	455MB	2198
486DX4/75	8.4" Active	340MB	2198
486DX4/75	8.4" Active	455MB	2448
486DX4/100	9.5" Active	525MB	3248

Versa P
Lowest Priced Pentium Notebook

2 Type II or 1 Type III PCMCIA slot
Removeablel HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
Pentium 75	9.5" Active	340MB	$3998
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	540MB	$4448
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	810MB	$4798

Versa M
Highest Resolution & True Color Display

2 Type II or 1 Type III PCMCIA slot
Removeable HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2798
486DX4/75	9.5" Active	540MB	$2998
486DX4/75	9.5" High Res.	540MB	$3198
486DX4/100	9.5" True Color	540MB	$3398
486DX4/100	9.5" Active	810MB	$3998
486DX4/100	9.5" High Res.	810MB	$4248

NEC Versa V
"V" for Value

Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	$2348
486DX2/50	4MB/20MB	9.5" Active	250MB	$2348
486DX2/50	4MB/20MB	9.5" Active	340MB	$2548
486DX2/50	4MB/20MB	9.5" Active	540MB	$2848
486DX4/75	4MB/20MB	9.5" Active	340MB	$2748
486DX4/75	4MB/20MB	9.5" Active	540MB	$3048

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Optra L 12ppm @ 600dpi, 4MB max 64MB, PSL2 e PCL5, 87 fonts 40912L $1898

Optra R 12ppm, @ 600 dpi, 2MB max 64MB, PSL2 2 PCL5, 87 fonts 404912 $1448

Optra Lx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916L $2448

Optra Rx 16ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916R $1998

Optra Lxi 12ppm, @ 600 dpi, 4MB max 64MB, PSL2 2 PCL5, 87 fonts 404916I $2998

ZENITH data systems

Product Highlight

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Upgrade any notebook with full multimedia capabilities in one easy step.
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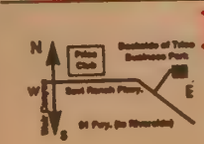

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Max On Art & Evolving Media

Instantly recognized for his celestial images and graphics on album covers such as the Beatles' *Yellow Submarine*, artist Peter Max has been credited with capturing the sensibility of a generation.

As a young artist Max worked to hone his skills as a realist painter, but when he was still in his early twenties, the world of the early '60s was filled with cultural, social, and technological changes. Social explorations intersected with new technologies, launching an explosion in colors in print and broadcast media. Magazines and television were filled with photographs capturing the same vivid textures of our society that realist painters sought to capture on canvas. In this environment, the "Max style" of brilliantly colored cosmic imagery burst onto the scene and spread across the US and the world.

"I was drawn to stuff that had multi-media," recalled Max. "It was the pencil, the pen, the oil paints, the canvas, the TV camera, and the TV

By Michael Robin

COVER ART CREDITS:
Copyright © Peter Max 1995.
Originally done for Apple Computer's introduction of Power Mac 9500 and Color LaserWriter, June 1995.

broadcast that became an aspect of my palette. It didn't end just with the brush and paint—it had to do with what I paint, and how does it get out there and reach millions of people. That became my final canvas."

While history really doesn't repeat itself, it does often rhyme. The '80s marked the beginning of another set of kaleidoscopic changes in the elements of artistic creativity. These new tools include ever more powerful computers, increasingly realistic scanners and printers, dramatically lower-cost reproduction and distribution of digital work, and an expanding universe of software tools for creating breathtaking new works—in real-time.

Since the early days of personal computers, when Steve Jobs sent Max an Apple computer, to his involvement in the introduction of SGI's Indy Indigo workstation to his work at the launch of Apple's new PowerMac 9500 and Color LaserWriter 12/600 PS, Max has consistently welcomed digital technology as the latest addition to his creative toolbox. (This issue's cover art was originally created by Peter Max for the release of the Apple PowerMac 9500 and Color LaserWriter.)

As with his close ties to the Beatles as they helped shape the music and culture of the '60s, Max has been associated first with Apple Computer and more recently with Silicon Graphics, as they help shape communications and culture in the '90s. I recently met with Peter Max at his studio in New York's West Side near the Lincoln Center to talk about his art and the process of creativity in a world of evolving media.

When did you start using computers for your artwork?

I've used them off and on as computers and paintboxes developed. Computer labs and computer companies were always asking me to come by to show me their new equipment and ask me to play around with it. They'd set me up with an engineer who would guide me through it until I was off doing my own thing. But even as I got into it, I would become excited with the transition phases, the stuff between programs. When I asked "What's this?" they'd usually say, "Oh, that's nothing." But I was fascinated just the same and would spend hours making lots of amazing images and that's how my digital library began.

But even though I was excited, I felt it still had an electronic look. Then when the scanner came in, it added a whole new dimension. I was then able to draw something in my own technique with pen and colored pencils in my studio and later scan it in and enhance it on the computer.

Actually, when I first started getting into the electronic media it reminded me of how I got into my Cosmic '60s period. Should I go into that and tell you about my past background?

Sure, to give us more context.

I was a painter in the tradition of Valasquez and John Singer Sargent; these were my idols. I wanted to do great textures—where this chrome pot [*tapping the coffee pot*] would look like chrome, ceramic would look like ceramic, and cloth looks like cloth. This takes a lot of skill and I was a real good realist.

But when I came out of the Art Student's League in the middle '60s, in my early twenties, color reproductions in magazines were peeking. All the magazines were going full color and realism was not a big deal. Photographers like Bert Stern, Richard Avedon, and Irving Penn were the giants then. They were doing great photographs of textures, and I said, "I don't have to sit here and render these images when they are already being made by great photographers."

I was not really a commercial artist, but I made my living making record jackets. I remember, when I was in art school, and some of the guys who graduated before me would come back to visit. Four or five guys would come by, they looked disheveled and poor and I would ask them, "What are you doing?" "Well, I've got a one-room attic and I am painting. I'm getting better." But, once in a while someone else would drive by in an MG or Corvette and I'd go, "What are you doing?" and he'd say, "I'm on Madison Avenue—making ads, making book jackets."

It didn't take much for me to know where to start. So, I had one foot in the media world, which a lot of people perceived as being commercial, but was really in the world of media where things were being reproduced at high speed; doing a book jacket for a great author, doing a record jacket for a jazz label.

Luckily, having grown up in China, where I lived for ten years and another year in Tibet, I gained this wealth of graphics and it burst through me like an image bursting through another image. This became my kaleidoscopic Beatle-type, *Yellow Submarine*-type images and I started getting awards for every record cover, book jacket, and advertising campaign I did. I got something like two hundred awards a year. Every art director in America would start using me because if I would win an award his name would go on as art director.

I had a look all my own with the stars and cosmos, space ships, all this stuff that I am now very well known for. There was nobody that I was following; there was not even a role model in art that I could follow because Picasso and Cézanne, and Matisse, and Gauguin, they were long gone. The thing I remember about Picasso was that he always required a catalogue. That was his media. If he did a bull fight thing he would want a catalogue; if he had a small art show for four etchings, it was another catalogue. In his lifetime, they published two, three thousand catalogues. There was no radio for him, there was no *Life Magazine*; there was no MTV or VH-1 like musicians have today. Even today, an artist does not have a lot of that.

But, I tell you, if Picasso and Gauguin were alive today, they would probably love to do stuff for MTV. That's what artists do. They always want to go where there is a "media affiliation." Hundreds of years ago, artists used to paint ceilings and portraits for kings and queens. There was no sense in painting it for the local farmer next door. In the same sense, as an artist, I was attracted to stuff that was media affiliated—record jackets, book covers, and advertising things.

What was the influence of pop artists like Warhol and Lichtenstein, the generation just before you?

The pop artists like Warhol, Lichtenstein, Rauschenberg, Rosenquist, Oldenberg, all those guys were making art from popular items.

They were also taking pop culture heroes, and putting them on canvas. I wanted to create my own pop; I wanted to be "popular." I didn't want to paint another soup can or another big movie star, but I wanted my work to have a popularity like the pop artists the decade before me.

I think I was in my middle-late twenties when I was on the *Ed Sullivan Show* and later had a TV special. I was drawn to stuff that had multi-media. In other words, it was the pencil, the pen, the oil paints, the canvas, the TV camera, and the TV broadcast that became an aspect of my palette. It didn't end just with the brush and paint—it had to do with what I paint and how does it get out there and reach millions of people. That became my final canvas. And that slowly developed over the years.

There is a big circle going on now. When I brought an image into the '60s, I had to have a style that was relevant to the '60s. It had to be to art what, let's say, the Beatles' music was to the music world. It had to reach the interests of the mass culture the way the Beatles' music and other rock-and-roll music reached the mass culture. That art had to do with new age, cosmos, global awareness.

We were talking about global awareness and ecology in the '60s when nobody was talking about it. I brought Swami Satchidananda to America in '66. We used to have intellects and scientists from Cornell, MIT, come to hear the Swami speak. Afterwards, there were questions and answers. The questions these guys would ask the

Swami were, "What's going to happen to this world with the rain forests being cut down and the pollution in the air?" This was the first time in my life I would hear that—this is in '67–'68. These ideas didn't really become a cultural or popular notion until the mid-'70s and early '80s, and it wasn't until about '92 that we had the [United Nations] Earth Summit in Brazil.

So from the '60s, global peace was the first ideal. When I used to walk around with my friends in Central Park and talk about the state of the planet, we would look up at these huge skyscrapers and say, "Why don't *they* do something about it?" Meaning the establishment up there in the skyscrapers, corporate guys.

Today we are they, it's us. We are the guys who are on the media, we're the people doing it. In the '90s, you've got the whole electronic world happening. Information is almost like the rock-and-roll of the '90s. It's the things that everyone is talking about. There's as much discussion about the information age as there was about rock-and-roll maybe a decade earlier.

Because of this new technological age that we're coming into, we are creating a globalization of information. You could be in Zaire in four seconds, in Tel Aviv, in Singapore, you can talk to them in full color. You and I both know, in the next two to three years we will be talking to them in 3-D, whether we do it with glasses or not. That's where it's all going, there's no stopping it. It's absolutely happening.

The same way we are going to see a three-dimensional world that is very, very small, content providers, which I consider my studio to be one, are going to play a very large role between now and the turn of the century.

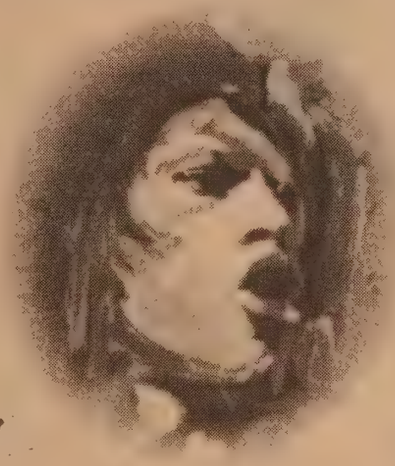
What do you see as the impact of the digital revolution on creativity and what you are doing?

It's all about creativity; it's all about enjoying. It has to be more and more pleasurable. What it will look like when the whole culture will use this equipment as they do when they put on a shirt in the morning, when it's just a part of life, is hard to predict because its moving so fast.

I'm looking at a world where I'm going to be creating stuff where the visual screen is going to be very, very large, on the wall. It's going to be completely full-color, three-dimensional; that I'll have maybe fifteen -to- twenty things simultaneously I could look at. I could be watching a movie or two and have people on hold. Instead of hearing my answering machine or a little bit of Muzak, they'll be seeing a little Max image moving. No one is going to ask the question anymore "What kind of computer do you have?" It's only going to be what's on it, who's on it, and what's happening today. The hardware is going to become invisible. No one ever asks, "What kind of light bulbs do you use? What kind of window pane do you have?" Who cares?

Engineers are creating the insides of the system.

What I want to add is the outer layer, the personality of the screen, how it interfaces with you, how you get to love it.



But that's the user side. As a content person how much do you see digital tools changing your work or, more generally, creativity?

My work is getting very interactive. It's a tremendously exciting visual adventure, and an opportunity to create with fantastic color blends and color combinations and positive imagery for whole new futuristic worlds—and it's going to be full of surprises.

The business side will have the business look, the family side will have the family look, but it will be all in one screen. Let's say you're a man working in an office managing a company. You do all your regular business in this screen that appeals to you. There may be a person next to you with a different screen—same information, except more colorful. Another may love sports and have a sports look.

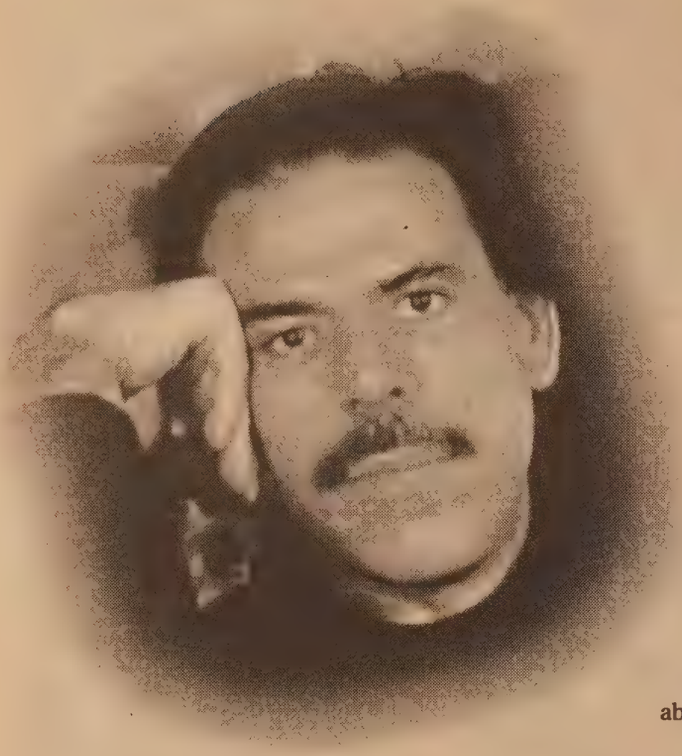
At the same time, if you have a little icon in the upper corner which means wife and children, it won't be just an icon of an X or a triangle. It'll have a look that you'll say, "This looks like the way I want my family to look." So, while someone is doing their regular business, they could take a couple of minutes and manage the family, then close it up again. The Peter Max thing will give people all of these different looks. It's going to have the look that you want it to have, and I'll give you a choice.

The thing that I'm looking forward to most of all is my involvement with the palmtops. As an artist I want to develop the future palmtop. The palmtop that I'm going to create is going to be in full color.

I remember when the first Apple came out and Steve Jobs sent me one. I called him up to thank him. It was black-and-white and I was excited. Then I thought to myself "I wish it was full color." When I called him, I said to him, "Steve, thanks so much for the Apple you sent me. I love it, it's unbelievable, and by the way, when is your color one coming out?" He was quiet. He was quiet on the phone for half a minute. He said, "It'll be here soon. It may be a few more years." He was still in the joy of just having created that. It was a tremendous piece of creation. But the thing is, as a user, as a creative user, I wanted it to be color.

At that time, my friends who were starting to use computers would say, "I can't use it yet. I don't have color," or "I have to put something on the screen, then I have to open a box and park it, and I've got sixteen things parked. It's much easier for me to use my hands and tools."

The same way, I would like to create the [interface of the next] palmtop that's going to be for the fashion designer, for the art director, for



the stage designer, for the film director...for all the creative people. Engineers are creating the insides of the system. What I want to add is the outer layer, the personality of the screen, how it interfaces with you, how you get to love it.

The thing is to make working with these machines so pleasurable and so friendly, more than friendly, irresistible, that you could hang out all day. Right now, for these who hang out all day surfing the net, it's more inquisitive. It's not so enjoyable.

Are the tools getting any easier and better to use?

Yes. We have amazing equipment here and I've got people who are very savvy using it. I'm pretty good on some of it, but they're really good. And I am really good in directing them.

What does your toolbox look like?

I create most of my work still with my hands. We were talking before about Peter Max the creator of future electronics, dressing it all up. I may do that partially on a computer, partially outside a computer. It's all a mixture. It's never all inside, all outside. Just like our lives, it's all a mixture.

We have all the programs, and we've got SGI equipment. I've got a dozen people working on things. I come up with the concept then we figure out the best way of using it.

If I had to give advice to artists around the country I would say, "Don't stop drawing." The skill you get when you have your pen on paper is a skill you should never lose. It is something that develops the conceptual mind. I always tell younger students to always draw, every day. I make about twenty, thirty drawings every day, minimum. It keeps that creative notion in my brain alive. I think by using the wrist—the fingers and the hands around the pen—a linkage develops between your hand and your brain. You develop this subliminal, unconscious, creative, instant-playback kind of thing. So if you wanted to do something, it happens. But if you don't use it, you lose it. Most people, if they use the toolbox, they don't draw outside anymore. It has to be a balance of both for creative people.

> Information is almost like the rock-and-roll of the 90s.

> There's as much discussion about the information age as there was about rock-and-roll maybe a decade earlier.

And what do you tell the other side, the developers? The people who are making the digital tools.

Just to make it faster and easier; give them broader range.

Scanners are very important. You create a piece of art, you scan it in, you manipulate it, do something to it, then print it out again. Then with a blade cut it a little bit, collage it, maybe scan it in again. And the beauty with digital is if you put it in once, two, three times you don't lose anything. You are getting the same quality out again.

One of the criticisms I hear from graphic artists about working with computers, is that it's dry, almost too exact, that the spontaneity is missing.

Half of creativity is using a mistake. What about when you do watercolor and it drips wrong? Or you mess it up? That becomes the new find.

Maybe future watercolor programs will have "faults." So as you are working, it drips on the paper, "Oh boy, let me fix it or leave it." Sometimes when it drips, "hey, I love the drip," or when the water bleeds too much it has a nice look. Whereas now, it is very, very exact.

I tell a lot of the people who work with me, "Please let me see layouts done in pen and pencil. Don't give me rightaway a computer thing." You can get more thinking on the sketchpad—you doodle, you scratch it... Then, bring out the right fonts, bring in the paintbox, catch the right colors, position it, move it around, get it exact, print it out. But when the thinking has to happen on the computer you get limited. But when you are working outside of it, with a pen and pencil, you are able to have a little bit extra fantasy.

On the computer, you want to use outside things mixed in. I think that's the broadest range an artist can get—something found outside, something slightly accidental, something very creative where it's a surprise, and the computer with all its tools. That's the nicest, that's when you have a really nice spectrum of range.

Do you see barriers for people to work with computers?

continued on page 130

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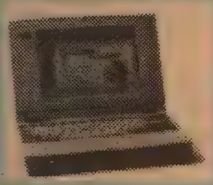

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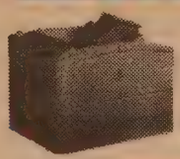

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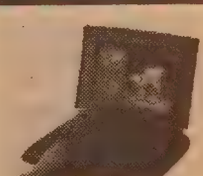

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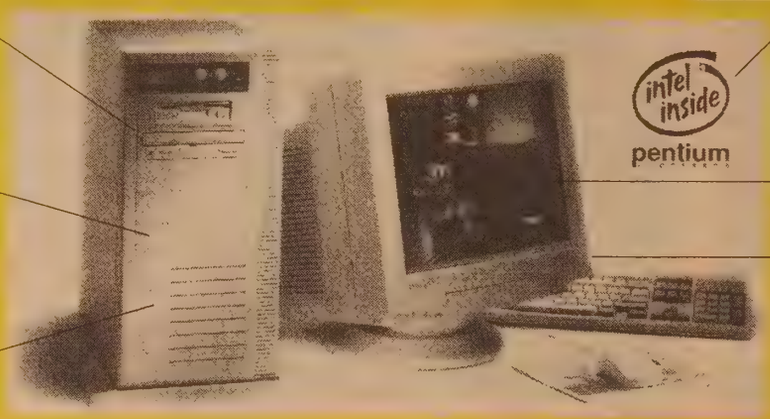
Recommend: **4X**
Optimal: **4X or 6X**

Memory (RAM)
Minimum: **4MB**
Recommend: **8MB**
Optimal: **16MB**

Hard Drive
Minimum: **200MB**
Recommend: **540MB**
Optimal: **850MB-1.0GB**



Processor (CPU)
Minimum: **386DX**
Recommend: **486DX**
Optimal: **Pentium**

Video Card
Minimum: **VGA**
Recommend: **32-bit SVGA Accelerator**
Optimal: **64-bit SVGA Accelerator**

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Microsoft's minimum requirements are a 386DX, but recommends at least a 486DX or DX2. We recommend looking at **Pentiums**. With the new Windows 95 innovations like improved graphics and multimedia performance, many software developers are already creating exciting new titles. That means that to enjoy these new titles, you're going to need all the speed you can get, and momentum is headed towards the Pentiums because of their 64-bit architecture and higher speeds. Because of this, Pentiums make a better long-term investment. Thus, for home and small office use, look at **Pentium-75s or 90s**. For most business uses, look at **Pentium 90s and 100s**. For power users, **Pentiums 120s and 133s** are the ticket. The key is to buy with the thought that your computer should last you a while.

Motherboard

For motherboards, you should look for systems with **PCI bus**, the standard bus for Windows 95. PCI buses offer wider channels for your data to flow from your peripheral cards such as your graphics card and drive controller. PCI buses are also Plug'n Play compatible so if you plug in a new PCI card, Windows 95 automatically senses and configures it without user input. All Pentiums come with PCI buses. A motherboard's chipset is also crucial to system performance as it is the heart of your computer. Intel's new **Triton chipset** runs **20 to 70% faster** than standard Pentium chipsets.

Memory (RAM)

After the CPU and motherboard, memory is the most important ingredient in optimal computer performance. For example, a Pentium 75 with 8MB isn't much faster than a 486DX4-100 with 16MB. If you put 16MB on that Pentium 75, it will run **73% faster**. Microsoft recommends **8MB** (4MB minimum) but you should look at **16MB**, especially if you have a Pentium in mind because the right amount of memory will take you a lot further.

Hard Drive

Just a little over 10 years ago, the first 20MB hard drives were just appearing and it was a big deal. The cost per megabyte was about $30. These days 850MB and up are the standard and a megabyte costs less than 30 cents, 1/100th of what it used to be. But programs are keeping pace. The word processor of yesteryear like WordStar only took up 2 MB. Today's word processor like Microsoft Word takes 15MB. Windows 95 will take up to 60 MB and that doesn't include any applications. Get a good size hard drive that will fit you current and future needs. 540MB is a minimum and strongly consider **850MB** and **1.0GB**, which do not cost much more.

Video Card

For video cards, get a Graphics Accelerators which are designed for specifically graphical interfaces like Windows 95. Accelerators are designed to give shortcuts for the most common graphical operations. Plus accelerators give you higher resolutions (**1024 x 768**) and more colors (**16.7 million**). Look for **32-bit accelerators** as a minimum and **64-bit accelerators** for ultimate performance.

Monitor

You need at least a 14" VGA monitor. However, to enhance your Windows 95 experience, you should get at least a **15" or 17" flat monitor**. The bigger size gives you more viewable area and ability to tap into higher resolutions. Plus flat screens will give you the ability to get a full screen without distortion. For added convenience, consider **digital controls** which save important monitor settings so you don't have to always adjust your screen.

Multimedia

Double Speed CD-ROMs are absolute minimums and you should really consider **quad** or **six speed CD-ROMs**. Quad speed CD-ROMs are probably good for most needs and they don't really cost too much more than double speed CD-ROMs. On sound cards, get **Sound Blaster** for 100% compatibility. It will save you a lot of hassles as many sound cards either do not work or cannot be fully utilized with Windows 95.

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MEMORY Memory is a crucial part of Windows 95 system performance and is probably the best investment of any upgrade you can do to your system.	**4MB** 72 Pin SIMM (1 x 32) $139.95	**8MB** 72 Pin SIMM (2 x 32) $279.95	**16MB** 72 Pin SIMM (4 x 32) $499.95
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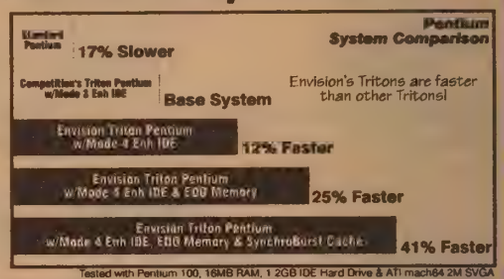
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25% Faster
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With Intel's revolutionary Triton chipset, you get 20%-70% more speed than standard Pentium chipsets giving you added performance from the very same Pentium processor thanks to a more integrated design, built-in PCI bus-mastering IDE, support for Mode 4 Enh IDE hard drives, support for new higher-bandwith EDO memory and SynchroBurst Cache. And because only Envision utilizes all the Triton's features, our Triton Systems are faster than the competition's Triton systems (see chart).

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Get more performance with EDO memory which provides double the bandwith between your CPU & memory (100MB/s vs. 200MB/s) giving you up to another 11% more performance. EDO is available on all Triton Systems as an upgrade option.

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Pentius

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MULTIMEDIA SYSTEM OPTIONS

Package	P75	P90	P100
Explorer 2X	$1,119	$1,199	$1,269
Adventurer 4X	$1,179	$1,259	$1,329

Multimedia come with CD-ROM, Sound Blaster 16, 20 titles and speakers
See descriptions of multimedia packages on opposite page

Maximus

8MB RAM · 540MB EIDE HD · 15" MONITOR

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$1,349 Pentium 100	· **2 Hi-Speed 16550 UART Serial Ports** · **ECP/EPP Enhanced Parallel** Port · **Deluxe Medium Tower** Case/**230W** PS · Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEM OPTIONS

Package	P75	P90	P100
Explorer 2X	$1,369	$1,449	$1,519
Adventurer 4X	$1,429	$1,509	$1,579

Multimedia come with CD-ROM, Sound Blaster 16, 20 titles and speakers
See descriptions of multimedia packages on opposite page

Colossus

16MB RAM · 850MB EIDE HD · 15" MONITOR

FINANCE as low as $60* per month

$1,599 Pentium 75	· Intel **Pentium-75/90/100 MHz**
$1,679 Pentium 90	· **4 PCI** Local Bus Slots & **4 ISA** Slots · **16MB** Fast RAM, expandable to **128MB** · **256K Write-back static** Cache · **850MB** Enhanced IDE Hard Drive (1.28GB-$80) · **3.5" 1.44MB** High Density Floppy Drive · Integrated **PCI Enhanced IDE** HD Controller · **64-bit PCI ATI mach64 SVGA** Accelerator · **15"** Flat SVGA Non-Interlaced Monitor (0.28)
$1,749 Pentium 100	· **2 Hi-Speed 16550 UART Serial Ports** · **ECP/EPP Enhanced Parallel** Port · **Deluxe Medium Tower** Case/**230W** PS · Enhanced **101-key** Keyboard & **Hi-Res** Mouse

MULTIMEDIA SYSTEM OPTIONS

Package	P75	P90	P100
Explorer 2X	$1,769	$1,849	$1,919
Adventurer 4X	$1,829	$1,909	$1,979

Multimedia come with CD-ROM, Sound Blaster 16, 20 titles and speakers
See descriptions of multimedia packages on opposite page.

Pentium Triton PowerStations

Featuring Triton Technology from $1,349! or $54 per month

Triton Warrior

8MB RAM · 850MB EIDE-4 HD · 15" MONITOR

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$1,749 Pentium 120	

MULTIMEDIA SYSTEM OPTIONS

Package	P75	P90	P100	P120
Explorer 2X	$1,519	$1,599	$1,669	$1,919
Adventurer 4X	$1,579	$1,659	$1,729	$1,979
Challenger 6X	$1,849	$1,929	$1,999	$2,249

Multimedia systems come with CD-ROM, Sound Blaster 16, 20 titles and speakers
See descriptions of multimedia packages on opposite page

Triton Gladiator

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Max On Art... continued from page 124

I hope that the computer age won't turn us into less creative people. Years ago, if you went to Paris, Rome, or Milan, you used to see these amazing, hand-carved stone sculptures all over. But now, you only see what was done a hundred years ago. And I would say that in the whole world there could be maybe less than a handful of people who know how to do that type of sculpture. It's too expensive, it takes too long. A student does not spend eleven years in art school studying that. Today, as soon as the parents know that their child can draw a little bit, what happens? They get a computer. So these skills are not developed in the artist.

The computer is the most wonderful tool that has come along in many years, maybe ever. But it should not be there to the detriment of the human skill—of mental conception or physical hand skills, like drawing or using a brushing. If I was head of a large computer firm with lots of creative people working for me, I would create a space where everyone would take an hour or so to do creative art exercises outside the computer environment, like finger painting, doodling, sketching, and discuss wild creative ideas—not computer ideas.

During the '60s and '70s your art seemed to be everywhere, what happened to you in the '80s? Did you stop painting?

Actually, everyone thinks that. I never stopped creating. I tooktime off from 1970/71 and came back out in the public by '88/'89. Those eighteen years I drew and painted a lot. I was working at my skill and I got really good at my craft. The retreat was really more a retreat from media, I had a little too much media. I was on the cover of *Life* and about 150 other magazines. It got me into a world that took me away from my easel. So, I told everybody I am taking off two or three months to paint and think random ideas. The three months stretched into a year... then two years...and before I knew it eighteen years went by and I had created thousands of beautiful canvases and many creative ideas.

But every year, during this retreat I would emerge and do one or two big art events like my US Border Murals, paintings for our presidents, a US postage stamp, even conceiving the idea of renovating the Statue of Liberty.

And today, where do computers fit in?

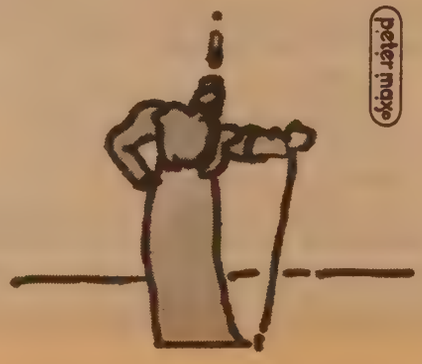
Over the last couple years I have been playing with a lot of PDAs and laptops. I love them because I can use them when I am in transit—waiting for a flight, on the airplane, it doesn't matter where I am. I'm also crazy about SGI's equipment—they create the most amazing tools of life for an artist.

I just took another floor in my building—another 10,000 feet for an electronic media lab. It will be a creative studio where we can create the user-irresistible imagery that will be the leading edge of graphics for the operating system of the 21st century. This is where I have been spending a lot of my creative time lately—inventing new worlds for operating systems of the future computer world. The Max look with Max icons and Max screen savers will be very personalized, so that you as a writer, for example, can have a different screen with different images than I do as an artist.

How do you see issues of control and ownership of what you create in a digital world?

I would say that it is all still developing, but everything is going to be coded like DNA so that it's going to remain yours always. In other words, when you break down a fractal, inside will be the copyright and the owner.

Today, people are sampling music. They take a piece off another person's music, then they stretch it, they change it slightly, then they'll even play it backwards and use it in their own music as theirs. But in the future, it'll be coded. So, if somebody says, "I know this is mine backwards and stretched" they can check it. I've seen things of mine be used, but changed a lot, and when we check it out we always know where it came from.



Will there be a Peter Max home page in the near future?

Yes. SGI is hooking me up on an Indigo Web server. People are going to be able to come to us through our home page, on the Web. Sometimes speak to me, sometimes tune into short footage, sometimes read biographical things, see where artwork is available, what cities have Max exhibits, what are my latest productions and what are my latest notions. We are going to share that with the planet. We get lots of fan mail all the time.

You are expecting to have that up soon?

Yes, in the next thirty days.

Some observers have drawn links and comparisons between the spirit of the '60s and the new digital age, not only in terms of people from both generations being involved but also more generally in the creative environment surrounding both eras. As someone with a foot in both decades, would you agree?

I think that the '60s inverted into the '90s. The '60s were a generation and a decade where a lot of creative ideas came to the surface. So much so it was like a strong evolutionary moment; it almost looked like a revolution. The kids were marching in the streets, there was anti this or for that, everything had to change. This is also when we first saw planet earth from a satellite photo, the first time man ever gazed at itself on the planet. We discovered ourselves and said, "Hey, there are no borders on this planet. There has to be peace. What is this nonsense with borders and countries?"

From the '60s on, the ideas began to be actualized. I said earlier how we would be walking in Central Park and say, "Why don't they do something about it?" Now we are they and if you look around the planet today there are tens of thousands of organizations that are working to save the environment, protect human and animal rights, and make the world a better place. There's a tremendous change to the good that occurred from the '60s. Before, I said that the '90s are the '60s actualized...now the good we do in the '90s will be actualized in the year 2010. ■

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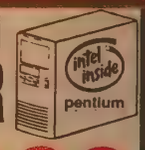

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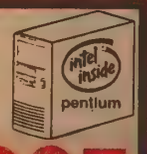

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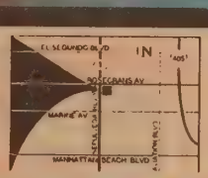

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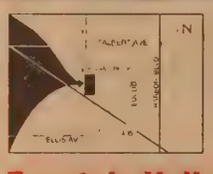

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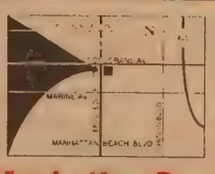

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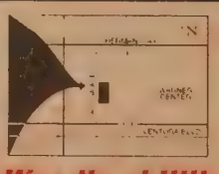

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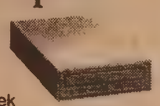

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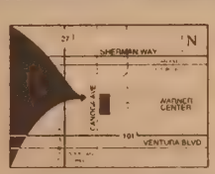

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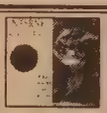

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The award-winning FWB ToolKit family of disk management software also includes...
- Greater Performance and Speed
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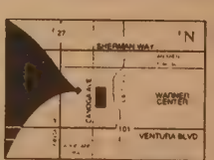

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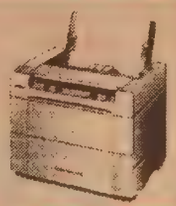

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- 80 Column
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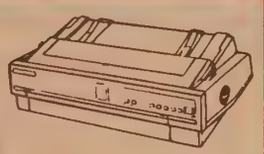

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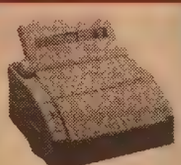

- Straight Papre Path Technology prints on a wide variety of stocks and sizes
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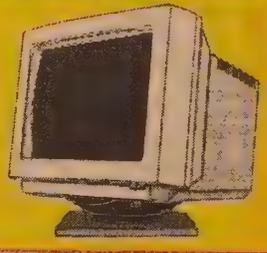

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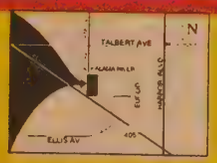

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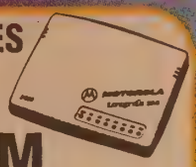

- **Quaility**-unparalled Motorola quality and reliability
- **Easy**-Plug and Play combatible
- **Fast**-sendand receive faxes, orders and information at rates up to 115,200bps
- **Efficient**-error correction for clear faxes, reliable data every time
- **Secure**-password and callback security

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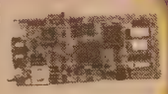
28,800 BPS V.34 INTERNAL FAX/MODEM



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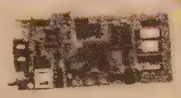

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Free SmartCom Data and Fax Software
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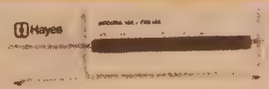

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- Cables included

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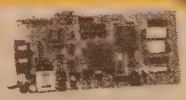

- Easy plug and play installation for Windows 95!!!
- 28000bps data/14.400 bps fax • Caller ID
- 5 year limited warranty • Complete Windows product
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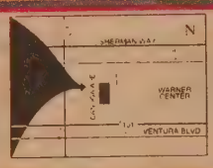

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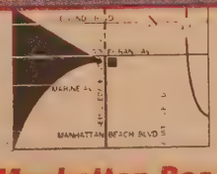

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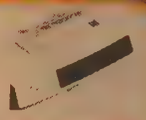

- **Parallel Port Interface for true 28,800 bps throughputs in Windows-Standart Serial**
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- Compatible with 28,800 (V.34 and V.FC).14,400, 9600, 1200 and 300 bps modems
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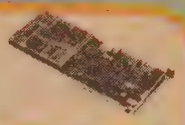
SPORTSTER SI 14.4 INTERNAL DATA/FAX MODEM



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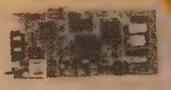

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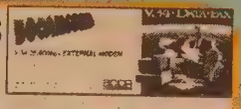

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- V.42bis Data Compression for Throughput Up to 115,200bps
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High Speed Modem Coupler

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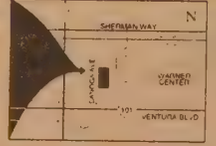

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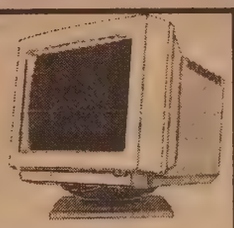

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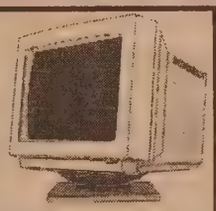

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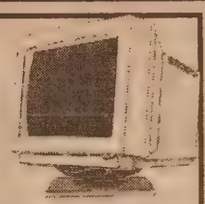

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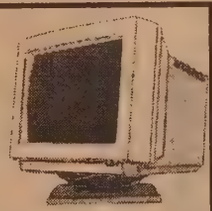

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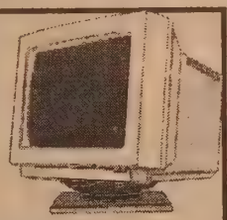

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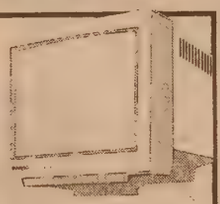

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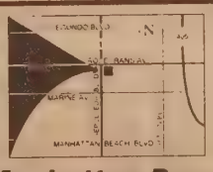

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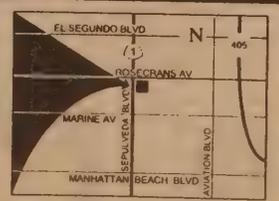

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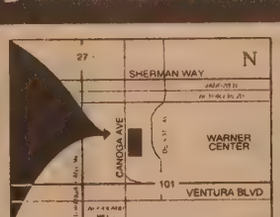

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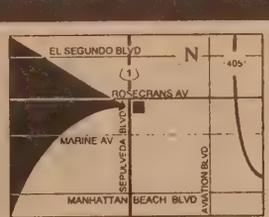

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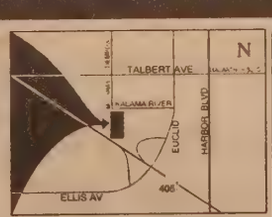

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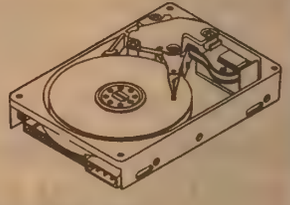

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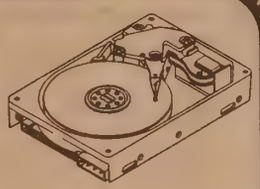

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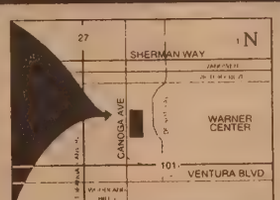

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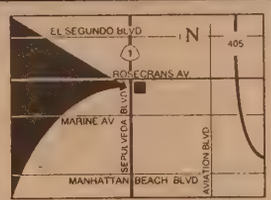

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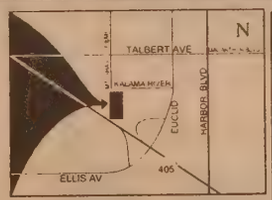

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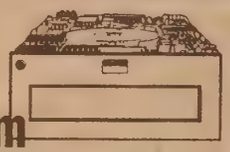

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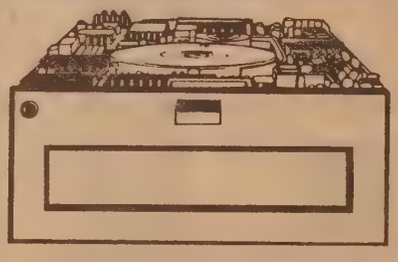

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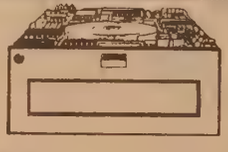

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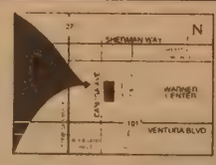

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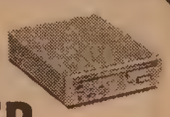

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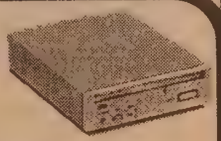

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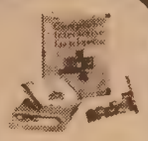

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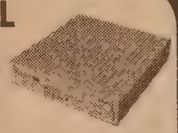

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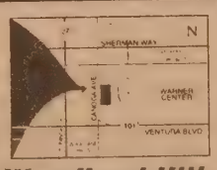

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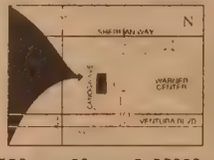

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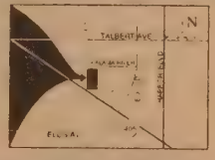

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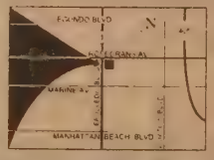

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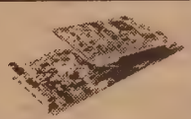

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- Includes Free music software package ($100 value)

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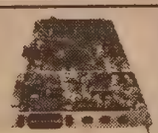

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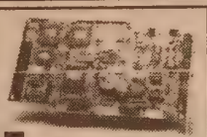

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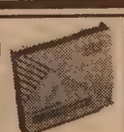

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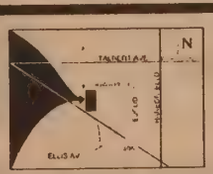

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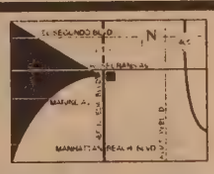

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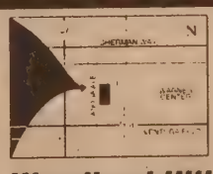

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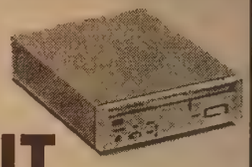

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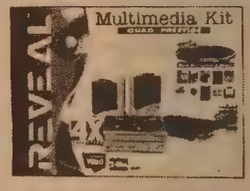

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- Stereo speakers
- Includes 5 multimedia software titles

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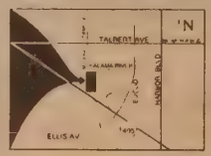

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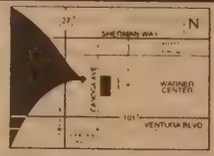

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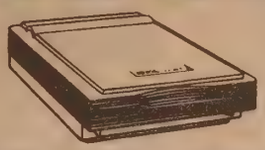

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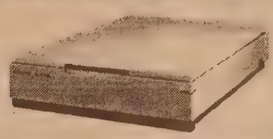

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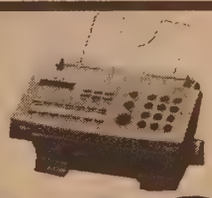

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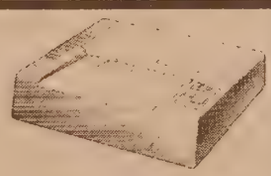

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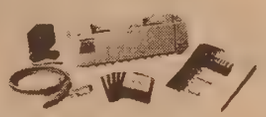

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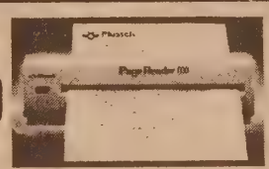

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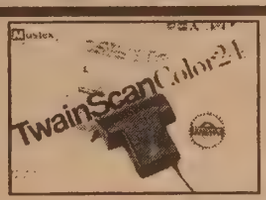

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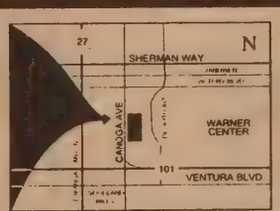

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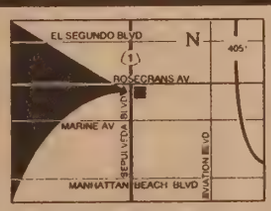

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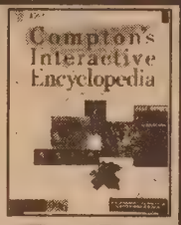

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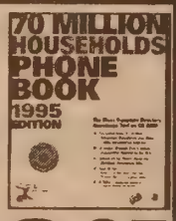

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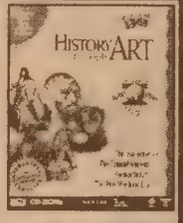

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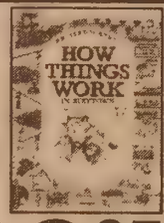

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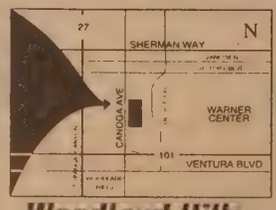

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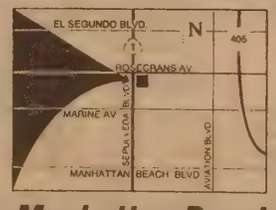

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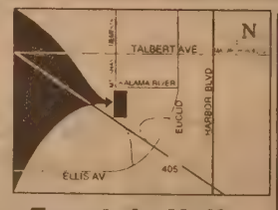

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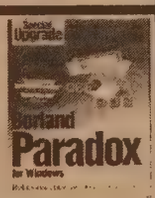

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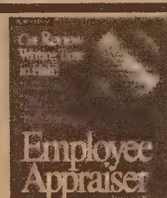

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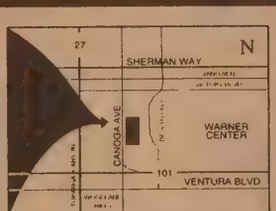

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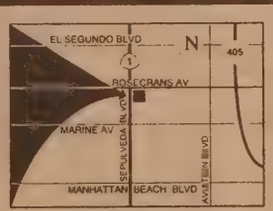

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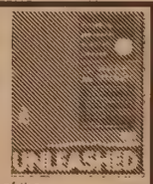

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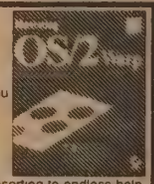

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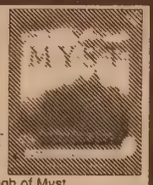

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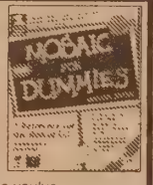

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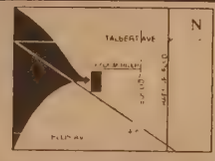

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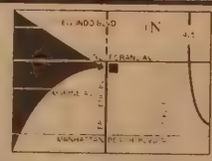

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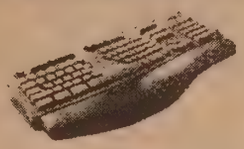

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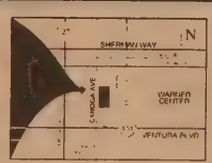

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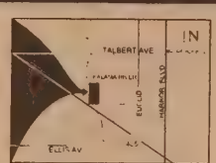

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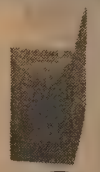

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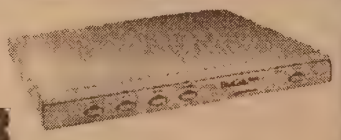

- Lighted LED indicators
- 420 joules dissipation
- EMI/RFI noise protection
- $5000 equipment guarantee

DGPC
#1953952

$49.99

Interex® Computer Products

POWER CENTER

5 Individual Controls
Includes 5 Year $5,000 Equipment Warranty
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INNOVATIVE CONCEPTS, INC.

AUTO SWITCH POWER CENTER w/ 1710 JOULES

Fax/Modem Protection • 1710 Joules
$10,00 Equipment Warranty
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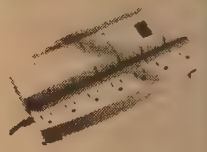
COMPUTER GRADE SURGE PROTECTOR

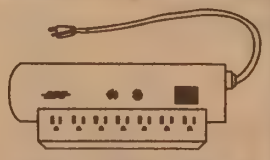


7 Outlet • 360 Joules Surge Protection with $10,000 Equipment Warranty
S100
#1835430

$26.99

APC AMERICAN POWER CONVERSION

7-OUTLET SURGE ARREST



240 Joules Dissipation
Site fault wiring indicator
Reduce Intermittent
Lock Ups and Parity Errors
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6-OUTLET SURGE PROTECTOR

6 Outlet • 171 Joules • 4.5K Amp Max
Lighted Switch • 6 Foot Power Cord
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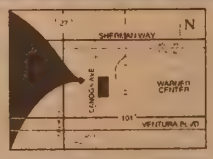

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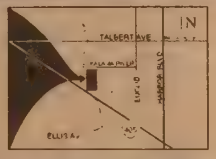

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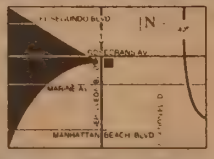

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THE WORLD'S BEST FAX MACHINES

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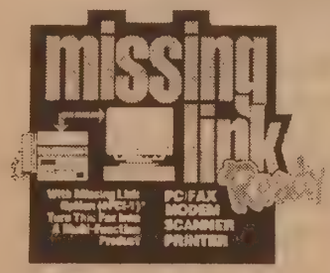
PLAIN PAPER FAX WITH 256 MEMORY

With the optional PCI-1 missing link you can turn your plain paper FAX into a multi-function FAX for PC/FAX modem, scanner, and printer integration with you PC! Other features include 256K memory for broadcasting or up to 10 pages of out-of-paper reception, 20 page document feeder, 200 sheet capacity paper tray, 90 number memory, 64 level grayscale, copier functions with enlargement/ reduction capabilities, and much more! An invaluable investment for the home or office at just...



$449

Model FAX-1350
#2058250

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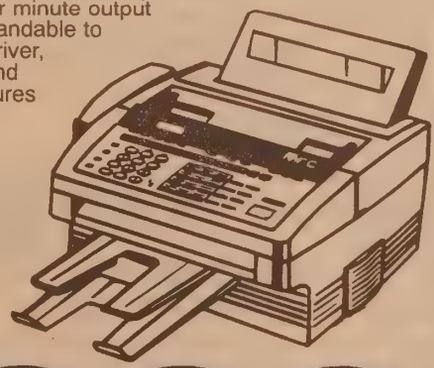
LASER MULTI-FUNCTION Center MFC FIVE IN ONE
FAX • PRINTER • COPIER • SCANNER • FAX MODEM

MULTI-FUNCTION LASERFAX MACHINE

The Brother MFC-4500ML five-in-one multi-function center integrates five separate products into one compact desktop package! Fax features include 512K memory for 20 pages of document storage either for broadcasting or out-of-paper reception (upgradable to 70 pages/1.5MB), 200 sheet paper tray, 64 level grayscale, 124 number memory, and much more! As a printer for your computer this machine provides 300 x 300 dpi laser 6 page per minute output as well as 512K memory (expandable to 20MB). Optimized Windows driver, Intelliprint, 45 internal fonts, and Power save mode. Other features include multiple copying up to 99 copies with reproduction/ enlargement capabilities, 200 x 400 dpi scanner with Windows PC and fax/modem. The ultimate fax machine for home or office is now available for just...



$999

Model MFC-4500
#2002145

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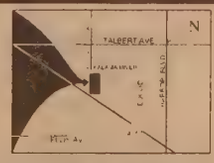

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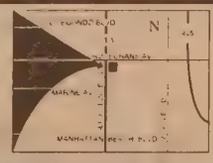

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PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

Model SERIES 3A
#1843567

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PERSONAL DIGITAL ASSISTANT

DOS COMPATIBLE WITH GEOS OPERATING SYSTEM

Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

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1MB PALMTOP COMPUTER

WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

Model HP-200LX
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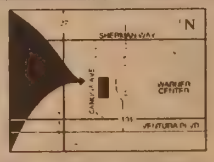

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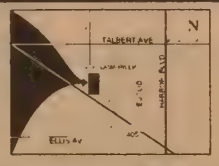

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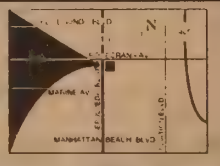

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ANSWERING MACHINES

Panasonic

ANSWERING MACHINE

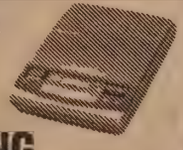
Answering System with Auto-Logic Operation, Tone Remote Control, Digital Display, Message Memo Recording and remote turn on, Auto-Logic Operation automatically rewinds, plays messages, stops at the last message and resets itself at the touch of one button.

$44.99

Model KX-T1000
#1498194

Panasonic

TWO LINE ANSWERING MACHINE
WITH VOICE TIME/DAY STAMP



Perfect for the home or office, this Panasonic two line answering machine offers voice time/day stamp, voice prompts, 2 variable greeting messages, room monitoring, message alert, call screening, auto interrupt, toll saver, and more. Now just...

$129.95

Model KX-T5300
#1768084

Panasonic

ALL DIGITAL 2 MAILBOX ANSWERING SYSTEM
WITH VOICE TIME/DAY STAMP

Panasonic's fully featured answering system comes equipped with 10 minute storage capacity, voice time/day stamp, 2 personal mailboxes with security, lcd display, message scan, 2-way record, selective message delete, message skip/repeat, auto disconnect, auto redial, 10 number memory, and much more! An invaluable addition to any home or office at just...

$129.95

Model KX-T2840
#1914630

OFFICE PHONES

Panasonic

SPEAKERPHONE

For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

TWO LINE SPEAKERPHONE

A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

$68.95

Model KX-T3120
#1510676

Panasonic

TWO LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$79.95

Model KX-T3165
#1945111

CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

Model
KX-T9500
#1948839

Panasonic

10 CHANNEL CORDLESS PHONE
WITH 30 MINUTE CAPACITY ALL DIGITAL ANSWERING MACHINE

Panasonic has combined a premium performance 10 channel cordless phone with features that include LCD display on handset, 21 day battery stand by, intercom, 2-way paging, 10 number speed dialer and a 30 minute all digital answering machine that offers 4 mail boxes, voice time/day stamp, message scan (plays first 5 second of each ICM), message transfer, selective message delete, 2-way recording, and much more. Now only...

$279

Model
KX-T4600
#1841938

FAX MACHINES

Panasonic

FAX MACHINE
WITH PAPER CUTTER AND SPEAKERPHONE

Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$279

Model KX-F550
#1944271

Panasonic

FAX MACHINE
WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$345

Model KX-F750
#1944282

Panasonic

PLAIN PAPER FAX MACHINE
WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter /legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search.

$598

Model KX-F3000
#1850626

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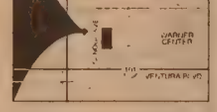

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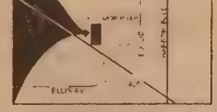

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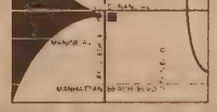

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GENERAL ELECTRIC
GE We bring good things to life

SPEAKERPHONE

This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

$39.95

Model 2-9320
#1674277

AT&T

SPEAKERPHONE

AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

$49.95

Model 706
#1781315

AT&T

SPEAKERPHONE

With features like hands-free speakerphone, 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

$49.99

Model 825
#1355048

Panasonic

2-LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$79.95

MODEL KX-T3165
#1745111

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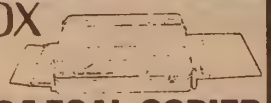
XEROX



LETTER/LEGAL COPIER

Don't settle for a copy when you can have the original... Xerox. This model offers a paper tray that stacks 40 sheets, a built-in carrying handle and removable storable paper trays, multi-copy capability which can be set from 1 to 9 copies or "C" for continuous up to 20 copies, and automatic exposure which scans documents for degrees of lightness or darkness to determining the appropriate exposure setting. An invaluable addition to any home office. Refurbished to work like new at only...

$279

MODEL 5222B
#2040662

SHARP

LETTER/ LEGAL PERSONAL COPIER

Compact and lightweight, this Sharp copier weighs only 17.5 lbs. and fits virtually anywhere! Yet, it even lets users make multiple copies up to legal size (81/2" x 14") originals onto a wide range of papers from 81/2" to 4" x 6", allowing an expanded range of applications. Other features include auto exposure, 50 sheet paper tray capacity, auto start function and much more! An excellent value at just.....

$399

MODEL Z-27
#1892837

SHARP

LETTER/ LEGAL COPIER
WITH STATIONARY PLATEN

This durable Sharp copier utilizes a stationary platen, a space-saving feature that eliminates the possibility of the copier bumping into objects while in operation. The variable zoom ratio setting adjusts between 70% and 124% in 1% increments giving you more copying flexibility and versatility. Other features include large capacity 250 sheet tray, continuous copy (up to max. 50), auto start, and letter/legal capacity. An excellent value at...

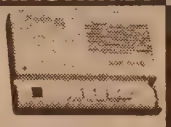
$679

MODEL Z-85
#1903740

ALL DIGITAL ANSWERING MACHINES

CONAIR

ALL DIGITAL ANSWERING MACHINE



Conairs fully digital answering machine allows you to avoid the hassle of constantly rewinding and fast forwarding tapes typically found in answering machines, within seconds you can skip forward of backwards to the message of your choice! Features include tone remote control, ring select, flashing message counter, call screening, auto disconnect, vox, and much more. Now just...

$34.99

Model TAD-1200
#1978539

GENERAL ELECTRIC
GE We bring good things to life

ALL DIGITAL ANSWERING MACHINE
WITH THREE MAIL BOXES

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

$59.95

Model 2-9876
#1839261

SONY.

ALL DIGITAL ANSWERING MACHINE
WITH TIME/DAY STAMP

This innovative Sony all digital answering machine features a slim space saving design which allows a phone to be placed on top of it. Other features include variable-speed playback, voice time-day stamp, digital message counter, audible message alert, and more. Now just...

$99.95

Model TAM-2000
#1949793

AT&T

ALL DIGITAL ANSWERING SYSTEM SPEAKERPHONE
WITH 2-LINES, 4 VOICE MAILBOXES AND 26-MINUTE TOTAL CAPACITY

The individual voice mailbox system, voice/time stamp, handset play back and record, display screen indicating time, day, and number dialed, and 2-way call recording.

$199.99

Model 1872 #1954997

900 MHz CORDLESS PHONES

SONY.

40 CHANNEL 900 MHz CORDLESS SPEAKERPHONE

By combining 900MHz Enhanced Reception with a 40 Channel Auto Scan system, Sony has designed a cordless phone that not only provides clearer transmission with less noise and interference than conventional 46 to 49 MHz cordless phones, but also gives you enhanced channel selection resulting in greater flexibility if you encounter interference during a call. With 2-Way Paging/Intercom, Base Speakerphone, 3-Way Conversation, 20 number memory, last number redial, flash, and more. Sony has designed the perfect cordless phone for the home or office at only...

$199.95

MODEL SPP-ER1
#1839009

muratec

60 CHANNEL ULTRA LONG RANGE 900MHz CORDLESS PHONE

Compact in design, but powerful in performance, this 60 channel, long range 900MHz phone offers 10 number speed dialer, last number redial, flash, intercom/ paging, mute, and much more. Now just...

$199.95

Model CP-900
#1986611

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DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

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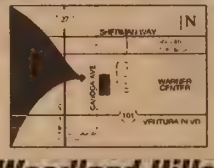
SUNDAY
9AM - 7PM



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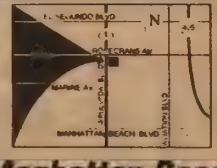

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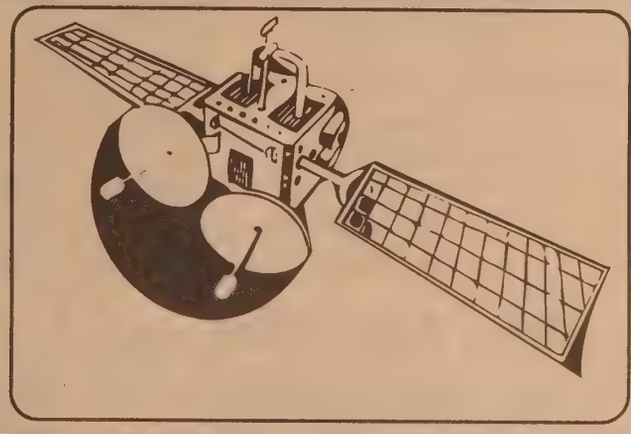

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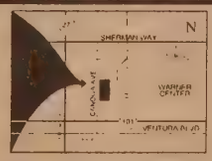

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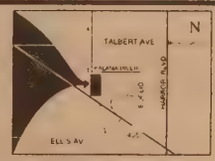

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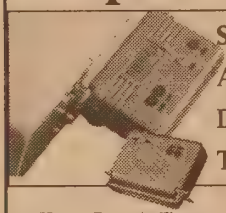

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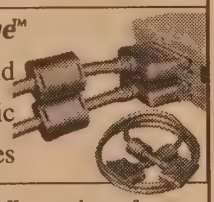

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Insights *continued from page 20...*

next year or two. The RAM merchants who sell to the upgrade market may soon find it harder to buy RAM, and thus raise their prices to help cover their scurrying around. Large PC manufacturers have more stable sources for RAM, but mid- and small-size PC makers don't, and often end up competing with RAM merchants for small orders of one hundred to one thousand SIMMs.

Avoiding Doom And Gloom

The combination of software and RAM prices may contribute to fewer people upgrading to Windows 95. Heck, there are still many people who have yet to upgrade from MS-DOS to Windows because their word processor, the only program they use, still works fine on their PC that has a 386 and 1MB of RAM.

Although much of the decision not to update to Windows 95 comes from inertia, add a $500 software and RAM bill, and you may find people somewhat happily running Windows 3.1 in 1998.

Although much of the decision not to update to Windows 95 comes from inertia, add a $500 software and RAM bill, and you may find people somewhat happily running Windows 3.1 in 1998.

Software manufacturers may have a rude shock next year if their predictions about upgrading to Windows 95 are too high. There could be a real demand for support for Windows 3.1, even to the point where the vendors have to come out with new versions that work on Windows 3.1 as well as they do on Windows 95. One scenario that's not all that far-fetched is that a couple of smaller companies that actively support their Windows 3.1 products start to see their sales go up due to sales in the Windows 3.1 market, as long as their programs also work well on Windows 95.

Microsoft made it somewhat easy to be sure that a reasonably written Windows 3.1 program won't crash under Windows 95. Unfortunately, many current programs do crash badly under Windows 95, including current or recent versions of programs from major companies like Lotus, Corel, and Borland.

It is likely that those bugs in Windows 95 will get fixed by the software makers, not Microsoft, in very short order; some might even be given away free to users. More likely, the bug fixes will get rolled into planned upgrades that will not be free, and may cost a significant amount of money. ■

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Stock Chart continued on page 164

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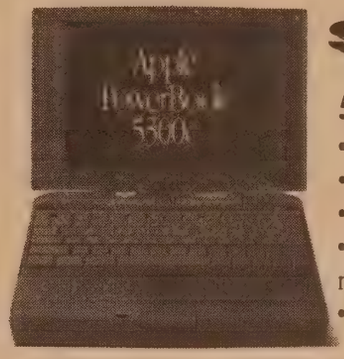

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- 2 PC card-pcmcia slots
- 10.4-inch backlit active matrix color LCD display
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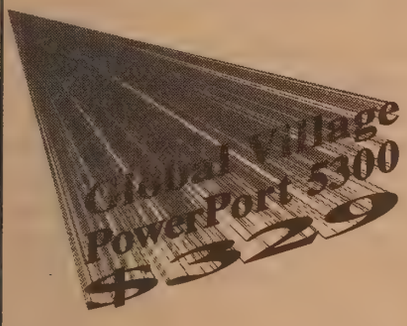

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5300ce / 117 -32/1.1gig hd

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- Infrared Technology
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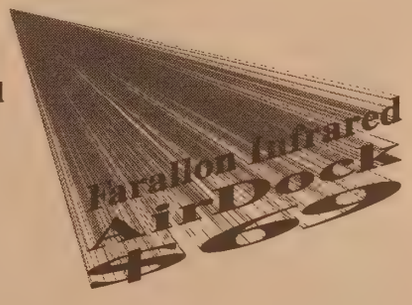
- 3 to 5 hr. battery life



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Insights *continued...*

MicroTimes Stock Index Takes Another Step Forward

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 08/02/95	CLOSING PRICE 08/30/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
OTC	Adobe		ADBE	58.63	49.50	-9.13	-15.57	90	0.20	0.40	66.50	27.25
OTC	Autodesk	(H)	ACAD	46.25	45.75	-0.50	-1.08	31	0.24	0.52	53.00	28.75
OTC	Borland	(H)	BORL	11.81	14.25	2.44	20.63		0.00	0.00	15.25	6.00
OTC	Informix		IFMX	28.50	27.38	-1.13	-3.95	46	0.00	0.00	32.38	10.50
OTC	Microsoft		MSFT	89.00	93.25	4.25	4.78	40	0.00	0.00	109.25	53.88
OTC	Novell		NOVL	17.50	18.25	0.75	4.29	23	0.00	0.00	23.25	14.13
OTC	Oracle	(H)	ORCL	39.63	39.88	0.25	0.63	40	0.00	0.00	44.38	24.75
OTC	Software Publishing		SPCO	3.50	4.63	1.13	32.14	58	0.00	0.00	6.25	2.88
OTC	Synantec	(H)	SYMC	26.63	28.00	1.38	5.16	27	0.00	0.00	32.38	11.63
	HARDWARE											
OTC	Apple		AAPL	44.38	43.38	-1.00	-2.25	11	0.48	1.11	50.13	32.50
OTC	AST Research		ASTA	15.00	13.50	-1.50	-10.00		0.00	0.00	19.25	10.38
NYS	Compaq	(H)	CPQ	49.38	47.25	-2.13	-4.30	14	0.00	0.00	54.75	30.75
NYS	Digital Equipment		DEC	43.13	40.88	-2.25	-5.22	273	0.00	0.00	49.50	23.50
OTC	Dell	(H)	DELL	63.25	76.13	12.88	20.36	16	0.00	0.00	77.38	30.75
NYS	Hewlett-Packard	(H)	HWP	72.50	78.13	5.63	7.76	18	0.80	1.02	85.38	41.75
NYS	IBM	(H)	IBM	107.50	101.63	-5.88	-5.47	12	1.00	0.98	114.63	66.63
NYS	Silicon Graphics		SGI	39.00	42.25	3.25	8.33	33	0.00	0.00	45.63	23.38
OTC	Sun Microsystems	(H)	SUNW	45.38	55.38	10.00	22.04	15	0.00	0.00	62.00	25.38
NYS	Xerox	(H)	XRX	117.00	120.25	3.25	2.78	16	3.00	2.49	128.38	90.63
NYS	Tandy	(H)	TAN	59.13	63.13	4.00	6.77	21	0.72	1.14	63.38	39.50
	CPU'S											
NYS	Advanced Micro Devices		AMD	31.00	33.38	2.38	7.66	11	0.00	0.00	39.25	22.25
OTC	Intel		INTC	61.50	60.38	-1.13	-1.83	19	0.16	0.27	78.38	28.75
NYS	LSI Logic	(H)	LSI	42.38	49.25	6.88	16.22	35	0.00	0.00	53.00	14.75
NYS	Motorola		MOT	73.88	72.75	-1.13	-1.52	25	0.40	0.55	80.13	49.00
	COMMUNICATIONS											
NYS	AT&T		T	52.63	56.63	4.00	7.60	18	1.32	2.33	59.00	47.25
NYS	BellSouth Corp.	(H)	BLS	67.88	68.00	0.13	0.18	16	2.76	4.06	69.00	50.50
OTC	MCI		MCIC	24.00	23.88	-0.13	-0.52	18	0.05	0.21	25.88	17.25
NYS	Northern Telecom		NT	37.63	36.38	-1.25	-3.32	22	0.44	1.21	41.00	31.25
NYS	Pacific Telesis		PAC	28.63	28.13	-0.50	-1.75	11	2.18	7.75	33.25	25.63

Note: Lotus was acquired and removed from our list.

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	16
DECLINES	13
UNCHANGED	0
NEW HIGHS	13
NEW LOWS	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Sun Microsystems	$ 12.88
LARGEST DOLLAR LOSER	IBM	$ -9.13
LARGEST PERCENTAGE GAINER	Borland	32.14 %
LARGEST PERCENTAGE LOSER	AST Research	-15.57 %

	CLOSE 08/02/95	CLOSE 08/30/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7501.51	7787.50	285.99	3.81
DOW JONES INDUSTRIAL AVERAGE	4665.85	4604.57	-61.28	-1.31
STANDARD & POOR'S 500 INDEX	558.80	560.92	2.12	0.38
N.Y.S.E. COMPOSITE	298.95	301.40	2.45	0.82
NASDAQ COMPOSITE	978.76	1012.61	33.85	3.46

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57

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Technology stocks continued their upward trajectory for the month of August. Specifically, the MicroTimes Stock Index jumped 285.99 points, or 3.81%, to close at yet another record high of 7787.50. In similar fashion, the S&P Index rose 2.12 points, or .38%, to close at 560.92. In stark contrast, the Dow Jones Industrial Average slid 61.28 points, or 1.31%, to 4604.57.

In our index, advancing issues edged out declining issues by a sixteen-to-thirteen count, and there were thirteen new 52-week highs vs. zero new 52-week lows.

Turning To The Stocks In The MicroTimes Index:

Microsoft Corp.'s new operating system, Windows 95, went on sale at midnight August 24, worldwide, marking the beginning of an expected surge in sales of software, personal computers, and related equipment. Windows 95 is expected to sell seven to nine million copies in the first seven days according to market researcher Dataquest, Inc. Microsoft Corp. was up 4.25 points, or 4.78%, to close at $93.25.

Dell Computer Corp. reported fiscal second-quarter net income of $65.1 million, or $1.32 a share, compared with $28.6 million, or $.65 a share in the year-ago quarter. The company attributed the strong earnings to increased sales to corporate and government customers, aided by a quick shift to Intel Corp.'s Pentium microprocessor. Shares for Dell rose 12.88 points, or 20.36%, to close at $76.13.

Sun Microsystems Inc.'s role in the operations of the Internet was highlighted by a recent announcement of plans to develop an electronic check-payment system for use over the global computer network. Last month, Sun Microsystems Inc. gained ten points, or 22.04%, to close at $55.38.

AT&T Corp. said it will ask federal regulators to block Sprint Corp.'s proposed alliance with the French and German phone monopolies until the two European markets are opened to competition. Victor Pelson, a global operations executive with AT&T, said, "We believe the price of entry has to be the reality of competition, not just the promise of it." Shares of AT&T Corp. rose four points, or 7.60%, to close at $53.63.

Realizable Fantasies *continued from page 28*

but there was no escape from Wells inhumanity. And that was the business services phone-swamp. One can only guess what torture Wells Fargo inflicts on mere consumer-level victims, uh, customers.

411 gave no alternative, other than Wells administration in San Francisco—where a live human said there was no way to call the branch; I had to go through the phone-tree. (I considered saying the branch was on fire, but rejected the temptation.)

The Wells operator did, however, finally disclose the secret for getting more quickly to the waiting queue for someone not at my branch: Press "*".

Back to the @#$%# phone-tree. Press "star." Wait through several "next available" messages. Ten minutes and three phone calls into this idiocy, I was finally permitted to talk to a human—who, of course, couldn't help me. But she did benevolently connect me—*livid*, by that time—to my branch manager...who promptly and politely resolved the problem.

Wells Fargo top management apparently thinks "service" means customers serve the bank!

If I wanted to work for a bank, I'd apply for a job.<flame off>

Good Phone-Trees

Companies *can* offer the efficiency of phone-trees in a humane manner: After a one-sentence welcome, give no more than three options, the third stating that "0" will bypass further menus and get a human. Thereafter, they can have as Byzantine a phone-tree as they want.

Horse's Mouth

In late August and September, Jim Warren will be speaking about computer-related government-access and civil liberties issues before the National Association of Secretaries of State (Rapid City ND, August 28–29), American Society of Access Professionals (mostly federal freedom-of-information officers, Washington DC, September 13–14), San Francisco PC Users Group (September 19, for info, 415/391-4905), the California First Amendment Assembly (Oakland, September 22–23, for info, 916/447-2322), and the Seybold Conference (San Francisco, September 27). ■

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- Super light weight: 5.5 lbs
- Includes Carrying case and software utility disks
- Built-in Dual button Trackball

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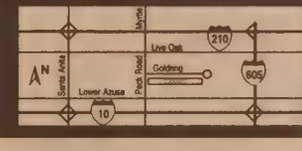

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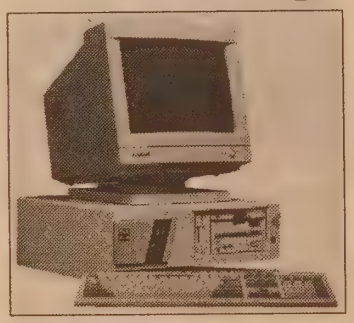

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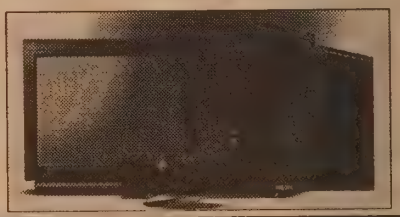

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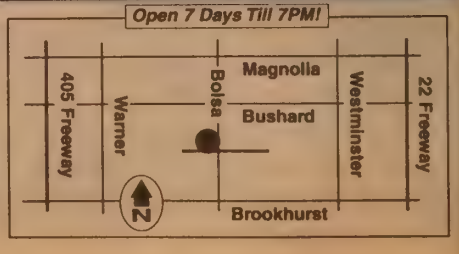

MultiMedia & BEYOND

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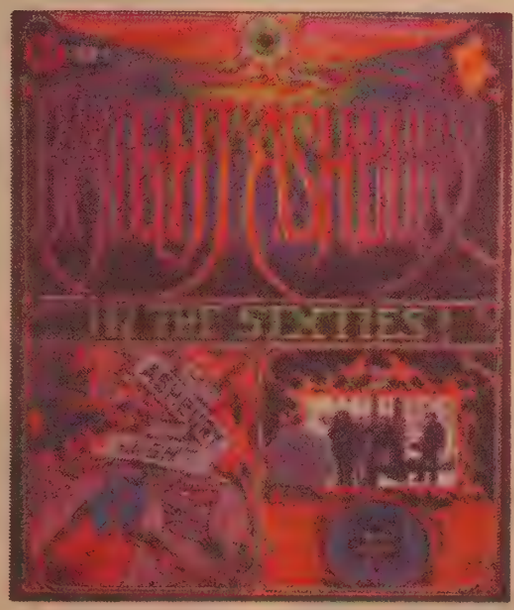
MULTIMEDIA 101

(What's So Funny 'Bout) Peace, Love, And Understanding?

Haight-Ashbury In The Sixties! Offers Lessons About The State Of Multimedia Capabilities

Either Robin Williams is seriously exaggerating when he says, "If you remember the '60s, you weren't there"—or Allen Cohen, principal narrator of Rockument's *Haight-Ashbury in the Sixties!*, wasn't there. On this double CD-ROM title, Cohen remembers plenty of events, some well-known, some obscure, from that time and place. Cohen's standing for telling the tale is that he was founder and editor of the famed underground newspaper of the time, the *San Francisco Oracle*. These two discs contain plenty of documentary evidence that Cohen was indeed there, perhaps even that he inhaled or ingested.

Given its content, the issue of drug use is a subject that this title quite obviously cannot avoid. Actually, it pretty much welcomes the question. In fact, *Haight-Ashbury in the Sixties!* includes a range of opinions with both pro and con attitudes expressed. However, it's no stretch of the imagination to say that, overall, intelligent use of certain substances is viewed in a more than permissive light. It would be a stretch to say that the title itself openly advocates drug use, but there's certainly a sly, sometimes unashamed, acknowledgement of the enjoyment and potential benefits of cannabis, LSD, and other psychedelics. There's also some humourous commentary on what happens when a trip goes bad. A small amount of attention is paid to the negative effects of speed and heroin, although the finger of blame is not pointed at the government's role in the plague of destructive drugs that had such devastating effect on the Haight-Ashbury. In this day and age, any balanced or informed discussion of the use of psychedelics has been almost entirely shut out of the mainstream media. It's a vital sign of the cultural importance and increasing maturity of multimedia that such alternative views can be expressed.



Drug use is really only the tip of the iceberg when it comes to differing opinions about what happened in the Haight-Ashbury in the 1960s. Conservatives decry the events as the end of American culture as they knew it, while dyed-in-the-wool hippies believe that those same events heralded a world-saving expansion of human consciousness. Likewise, opinions about the contents of this title are likely to reflect more of the opinion-holder's background than any objective stance. It's also worth remembering that, whatever various media would have you believe, the changes of those years were not centered only on the Haight-Ashbury. The tide of youthful rebellion rose nearly simultaneously in many places and eventually swept through most of the globe, perhaps having further-reaching effects in countries such as Czechoslovakia than in the United States of America.

BY JONATHAN E

MULTIMEDIA 101 *continued...*

Much of the strength of *Haight-Ashbury in the Sixties!* comes from Cohen's passionate feelings for his subject. It's a successful expression of his opinions and beliefs as well as his particular version of events. Equally as important, the title goes beyond point-and-click computer interactivity by engaging an open-minded user in actively and critically thinking about the subject matter—given the significance of the subject matter, there's plenty to think about.

One of the more significant differences between then and now is that in the 1960s information was considerably more scarce. An underground paper like the *San Francisco Oracle* was a genuinely big deal. Today, we're swamped by cheap desktop production and offset printing, not to mention the tsunami of information coming our way via the Internet and the Web, and the desperate need for alternative sources of information at the time is easy to forget. Another interesting aspect of the title is that Cohen makes a subtle but profound link between the chaotic layout and art of the *Oracle* and the nonlinear style of contemporary multimedia together with the libertarian attitude of today's cyber underground when he states, "We wanted to destroy the subtle military and industrial influence over our minds implied by the linear column and its hordes of marching letters and lines." One of the great untold stories of psychedelia—and the computer industry—is the immense impact psychedelics have had on the computer industry; definitely a story that has been politely ignored, if not swept under the rug. Finally, I could not help but be struck by how much psychedelic music has evolved over the years. Contemporary styles of psychedelic music (this year's hip genre, at least for the first six months, is trip-hop, but, in fact, there are many, many different expressions of musical psychedelia) are not only more sophisticated but are also more authentic, deeper, and wider-ranging than those of the 1960s.

I don't expect conservatives to agree, but *Haight-Ashbury in the Sixties!* should be in every high school classroom and library, both as a study aid to twentieth-century social history and as a good example of contemporary multimedia in its own right.

Besides that, it's visually striking and a lot of fun!

With the mid-August departure of Jerry Garcia from this plane, it's also worth noting that there's an enhanced poignancy to the nostalgia value of the title. It is not, however, a title about the Grateful Dead; it serves, instead, to root them in a particular milieu and explains, perhaps, the origins of the Dead's continuing appeal over thirty years of social and political change.

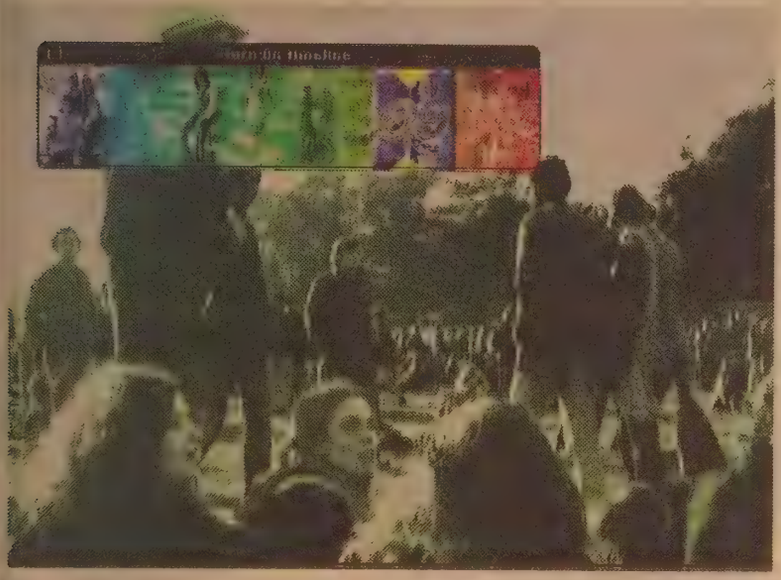
For the purposes of this column, *Haight-Ashbury in the Sixties!* offers a number of lessons about the current design and technical capabilities of multimedia.

TURN ON, TUNE IN, DROP OUT

Ironically, one of the most notable features of *Haight-Ashbury in the Sixties!* is that it has a substantial linear component in the Turn On section, which is essentially a slide show narrated by Allen Cohen covering his experiences in the Haight-Ashbury editing the *Oracle*. However, there's also a truly random-access section to much of the same material in the "game" part of the title, Drop Out. The third section, Tune In, is

Clockwise from top right: opening screen of Turn On, Grateful Dead interview from Tune In, example of *San Francisco Oracle* art.

MULTIMEDIA 101 *continued...*



Clockwise from bottom left: home screen, timeline in Turn On, screen showing hidden navigational buttons.

basically a database way to get at all of the same material and more including, for example, five complete Grateful Dead songs, "White Rabbit" from Jefferson Airplane, and a previously unreleased live recording of Big Brother & the Holding Company with Janis Joplin, all with specially created accompanying videos.

However, the linear nature of the Turn On section is vital to conveying Cohen's point of view. His comment about "the military and industrial influence...implied by the linear column" ultimately refers to layout of type and graphics rather than the temporal dimension. The simple fact of the matter is that a narrative sequence requires a beginning, middle, and an end. How the events within that narrative are arranged can be manipulated by the narrator. He or she may fast forward or back, or jump cut as much as desired, but abdicating all responsibility for the temporal arrangement with a totally random or spatially accessed design defies basic human logic, cuts off the flow of ideas at the waist, and results in irritating and totally unsuccessful designs such as the *Prince Interactive* or *Bob Dylan: Highway 61 Interactive* titles. Tony Bove, Rockument's executive producer for *Haight-Ashbury in the Sixties!*, explains that a spatial design of walking up and down streets and looking in doors was considered for the title but was quickly rejected.

Haight-Ashbury in the Sixties! does, in fact, manage to attain authentic and useful random access, with minor qualifications, in several ways. Turn On is essentially split into scenes. You can jump from one to another sequentially either forwards or backwards through the use of rollover navigational controls on the left and right of the screen. In addition, through another rollover control, you can access a timeline that allows you to make bigger jumps into the future or past. The Tune In section also accesses each individual scene and allows you to reedit the scenes into your own sequences. As you watch Turn On, you can also call up the credits for all the different media in each scene from another rollover spot and explore tangents to linked material from the content items themselves when they flash.

But for truly random access, go to the Drop Out "game." This is really a game of pure chance, akin to Chutes and Ladders (Snakes and Ladders to English readers), relying on the electronic equivalent of the roll of the dice rather than any skill or twitchiness. With each turn, you get a short excerpt from Cohen's narrative, sometimes slightly reedited to suit the game, as well as moving your marker around the board and points in various attributes such as Hipness, Spirituality, Love, or Food and Shelter. If you've already seen the clip, you can click it off and still get your points. Bove points out that, besides the game aspect, the purpose of this section is to introduce the subject matter in an amusing and informal way. He said, "We were trying to throw a party!" and Turn On could be a lot of fun in a party situation; it's certainly a complete stoner's no-brainer!

TECHNICAL GLITCHES MEET DESIGN FLAWS

The linearity of Turn On is also its Achilles heel when the title jams up as it does at several points in Cohen's narrative if you just have it running from beginning to end. When that happens, your best option is to quit and restart. But how do you get back to where you were? There are no save or bookmark functions, which probably wouldn't help you

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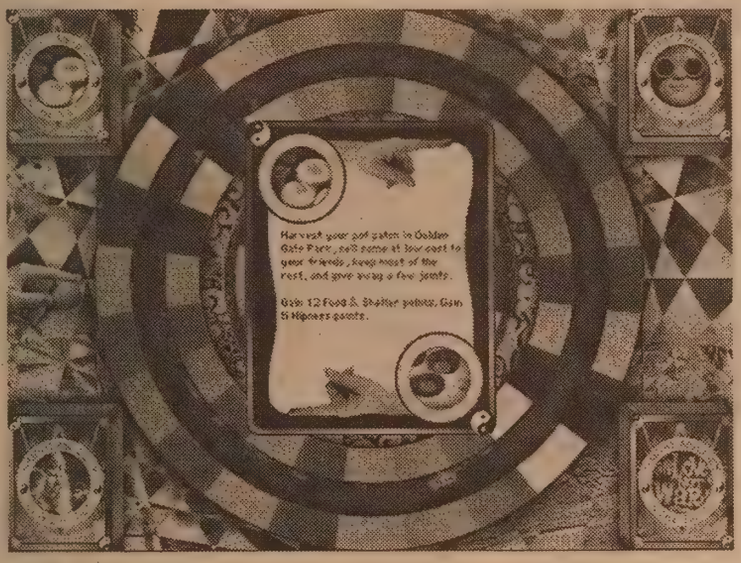

Screen from Drop Out game.

much unless you'd saved or marked shortly before the jam anyway but would be convenient if you wanted to watch only the first half and then reenter the title at a later date. You could spend a fair amount of time sequentially clicking through the scenes until you got to where you wanted—but the title is liable to jam at the same spots. So, you might try the timeline. Easier said than done. Firstly, if you were to check the timeline to see where you were, you wouldn't find out because it doesn't indicate where you are. Secondly, the timeline is off by a whole complete year! If you want to go to what the *Oracle* database indicates as early 1967 in the Tune In section, you must actually click on early 1968 in the timeline! If you try to access the scene through the Roll Your Own Show feature, you can only run that particular scene unless you select a whole series of scenes. It's all a bit confusing and aggravating, although with adroit navigation and mouse clicking you can eventually overcome the problems when the title jams.

Adding to the annoyance is the fact that whenever you reenter the Turn On or Tune In sections you have to wait while the introductory clip explaining the section loads before you can access the navigational controls you want. The truth is that, as far as simple random access to information is concerned, a book with a good index is quicker and easier. The requirement of multiple clicks is also a problem in the Drop Out game where each turn becomes increasingly tedious with at least two clicks and mouse movement required.

The sound, particularly in the Turn On section, also has basic problems. Some of it is very hissy and, as the title plays, Cohen's narrative becomes very stop-and-start jerky with strange gaps not

continued on page 202

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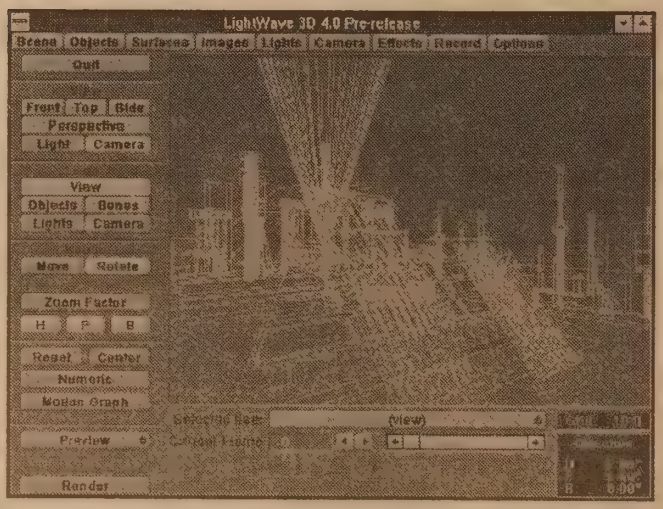
AMIGA

PC LightWave 3D

Premier Amiga 3-D Animation Program Comes To The PC

You used to need the Toaster to run LightWave and an Amiga to run the Toaster. Now you don't need either; LightWave 3D for the PC runs in native mode under Windows NT, but is compatible with Windows 3.1 as a Win32 application. Moreover, it is compiled for Intel, DEC Alpha, and MIPS CPUs.

LightWave is a 3-D animation program made up of two separate programs: Layout and Modeler. Modeler is used to create objects in three-dimensional space. Layout is used to place objects in a scene with lights and a camera. Then, from the camera's point of view, an animation is created frame by frame.



LightWave comes to Windows.

LightWave is important because it is affordable, yet is used on many major television programs such as *seaQuest DSV*, *Babylon 5*, *Star Trek: The Next Generation* and *Voyager*, *Sliders*, *Hercules*, *Unsolved Mysteries*, *The Tonight Show*, *Robocop*, *VR5*, and *Weird Science*. It is also beginning to make its way into film, previously the exclusive domain of SGI machines. LightWave animations can also be seen on countless television commercials, music videos, cable TV programs, corporate videos, and video games.

PC LIGHTWAVE 3D 4.0

PC LightWave is currently a "prerelease," therefore there will be some differences between it and the final release due out very soon.

NewTek's goal is to allow LightWave files to be interchangeable between platforms—you could create scene and object files at work on a PC and take them home and work on them on your Amiga. For the most part this works, but you'll have to keep filename limitations in mind. Amiga LightWave 4.0 is not available yet, but I have successfully used objects in Amiga LightWave 3.5 created with PC Modeler.

A big difference right off the bat is the ability to run Layout and Modeler on high-resolution screens. I used a 1024 x 768 screen. (My test machine was a 486DX-66 with 16MB of RAM, ATI mach32 graphics board, and Windows 3.1.) You get much more detail on the screen compared to the Amiga's standard 640 x 400 screen. Also, the PC's high-res mouse generally makes detailed work with individual points much easier. Additionally, if you're used to working with LightWave from the Toaster with an interlaced Amiga display, the rock-solid RGB display will be a sight for sore eyes. Even using a deinterlaced Amiga display, at the same resolution the PC's display is much crisper than the Amiga's.

Amiga owners with 24-bit display cards are anxiously anticipating the possibility of also running LightWave on higher-resolution

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AMIGA *continued...*

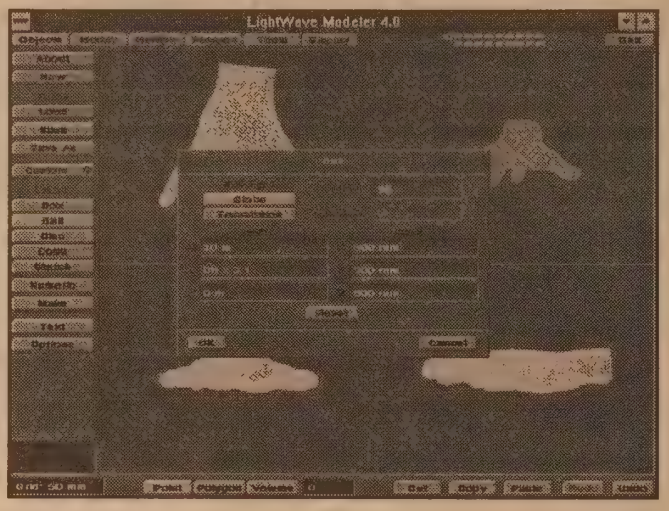
screens. (Currently there are compatibility problems with these cards and Amiga LightWave 3.5.) I have heard that Amiga LightWave 4.0 should work better with these cards, so I am optimistic.

The downside of using a high-resolution screen is that your computer now has to push around more pixels. This takes its toll on performance. Layout preview animations, for example, were sluggish. Things work better at 640 x 480, but you give up the advantages of the larger screen. Of course, a faster CPU and graphics card would help.

Modeler's display update was particularly slow. Dragging points, stretching objects, using a background image, etc. were all difficult tasks because of the tardiness of the display refresh. Interestingly, this was true even with a lower-resolution screen.

There is also no "busy" pointer. If LightWave is occupied doing something, there is absolutely no indication of this. It often seems like the program has locked up.

Currently, Layout and Modeler operate as totally independent programs, with no ability to import and export objects between the two programs, as you can with the Amiga LightWave. Another thing I sorely missed was the Toaster output of rendered frames. All my stuff usually ends up on videotape, and there is something comforting about seeing the rendered frames on the Toaster's video output.



The Windows version can display higher res images than the Amiga.

LAYOUT

A new feature in Layout is the ability to select an object by shift-clicking its pivot point. You can also change the color used for an object from the Scenes panel. There are two new pop-up requestors that will independently make all objects, lights, or bones visible or hidden. If you've ever had to toggle the visibility of a slew of lights, you'll appreciate this feature. (I'm working on a project now that has nearly one hundred lights in each of four scenes!)

INVERSE KINEMATICS

Inverse Kinematics (IK) works in conjunction with a hierarchical set of objects. You can position the last object in the chain, and all of the other objects will automatically fall into place. In the prerelease you can only define axis limits and the "goal" object, usually a null object.

The final release will include heading, pitch, and bank limits which will allow much more natural movements. So if you were setting up an arm, you could make it so the forearm could not be moved farther than it's joint would physically allow.

OBJECTS AND SURFACES

Individual objects can now be ignored when ray tracing. This could be a real time saver if you have a lot of nonessential objects in your scene.

The Surfaces panel now features a surface preview. Multiple thumbnail windows appear and you can apply the present surface setting to a default sphere. When you "render" a new surface, existing thumbnails move up and the new one is added to the bottom window. This is a very rough preview, but should "put you in the ballpark" much quicker.

There have been some tremendous improvements for reflections. Often, to get realistic reflections on objects, you had to enclose your scene in a sphere or have a flat polygon in the background. You now have the optional ability to automatically reflect the backdrop or an imaginary spherical reflection, with or without the effects of raytracing.

The new Shadow Alpha option will help facilitate realistic shadows where LightWave graphics are composited over video. The final release will also include a new glow surface attribute, which creates a glowing halo effect. There are related global parameters in the Effects panel to set glow intensity and radius.

LIGHTS, CAMERA, ...

You can now globally set an intensity envelope for all lens flares in a scene. This works as a percentage of existing lens flare intensity values. Lens flare options have been enhanced to allow greater control over anamorphic distortion and streaks.

In the Camera panel, the image compositing interface has been improved and now includes a pop-up display of selected images. An additional nonlinear fog type has been added.

FILENAMING

Generally on the PC, an image's filename extension tells a program the file format. So a

Loose Ends

On a somewhat related note: I was just informed that an animation I worked on and wrote about last November is a finalist for a "Wavey" award, sponsored by NewTek and *Video Toaster User* magazine. The ceremony will take place during the week of SIGGRAPH.

My promised review of NewTek's nonlinear editing product, the VideoToaster Flyer, will happen eventually. I have the board, but didn't receive all of the cabling.

Also, last month I indicated that using AGA Preview Anims in the new Toaster 4.0 would be a great way to make demo tapes of LightWave animations. Unfortunately, I have discovered that how—and if—they will be implemented in the final release is up in the air. NewTek has been concentrating on the Flyer software, for which Preview Anims are not necessary.

NewTek also tells me that AmigaDOS 3.1 is not compatible with their software. They recommend 3.0 for 4000s and 2.1 for all others. (Note: If you are an A3000 owner with 3.1 ROMs, forget about using AmigaDOS 3.0 disks from a 4000 or 1200. I've tried it and it doesn't work.)

Finally, it seems the $3500 street price announced last month for the Amiga 4000T was premature. The new price is rumoured to be around $2700. ■

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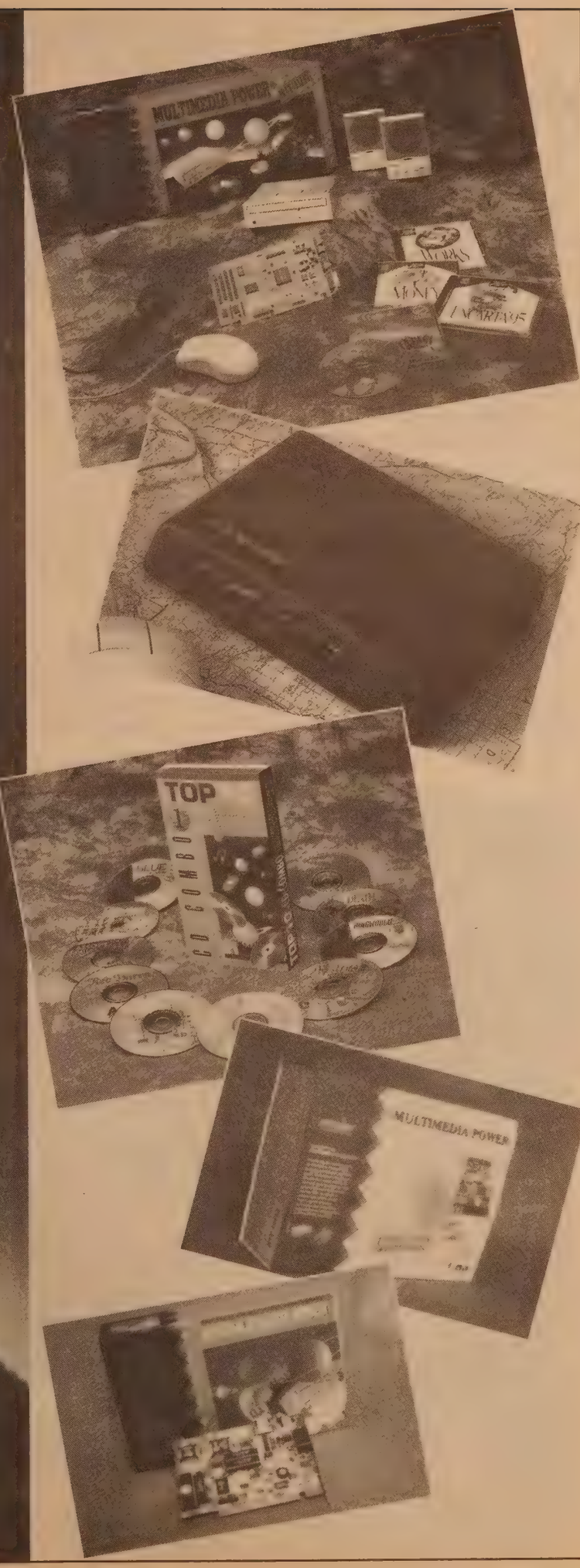

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AMIGA *continued...*

JPEG file must end with .JPG. (Amiga programs read the file header of image files and determine what they are.) For this reason, you now must designate the rendered image filename convention: either NAME001, NAME001.xxx, NAME0001, or NAME0001.xxx, where "xxx" is the file type. The PC formats (i.e., ".xxx") can cause some problems with Amiga programs that expect the numeric sequence to be at the very end of a filename. Fortunately a few renaming utilities have popped up to help overcome this problem.

RESOURCES:
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PLUG-INS

The biggest feature, which is totally unfulfilled in the prerelease, is plug-ins. LightWave contains "hooks" that allow external programs to be integrated into it. To a limited extent this has existed in the Amiga version using ARexx.

However, the possibilities with plug-ins go far beyond that. NewTek is hoping that developers will jump on this feature like others have done with Adobe Photoshop. Some types of plug-ins are supposed to be included in the final release.

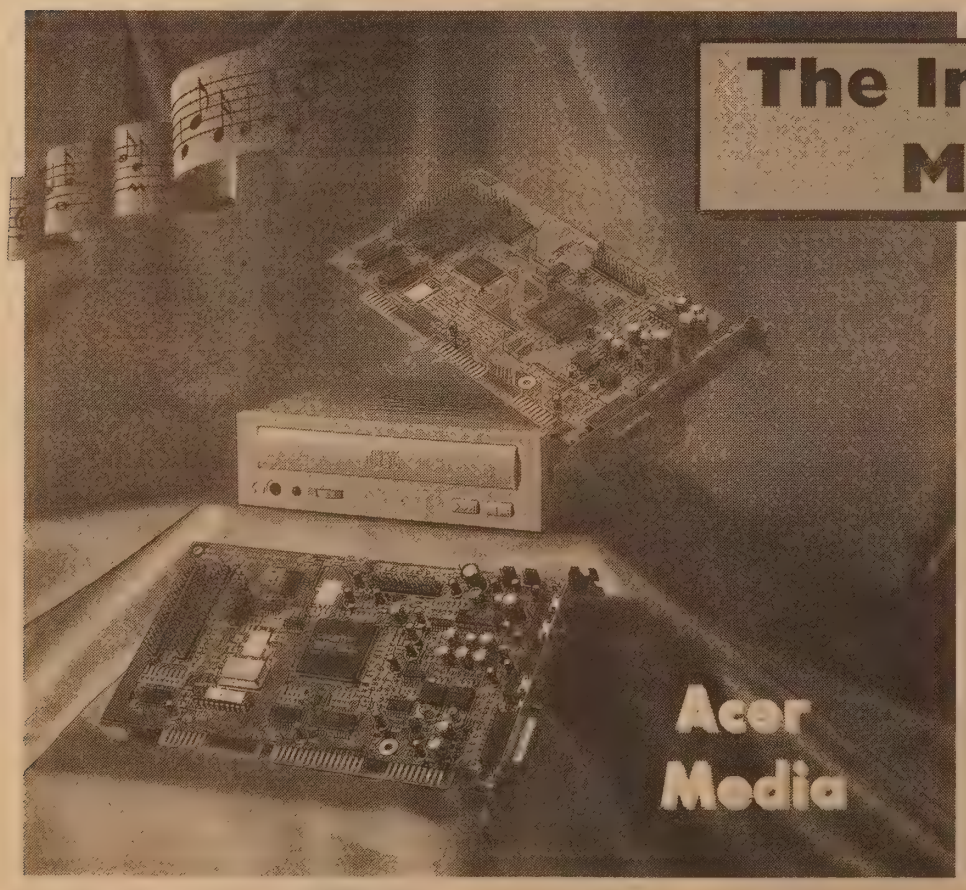
Currently there is nothing comparable to the Amiga's ARexx language. So what about all those wonderful Modeler macros you've learned to depend on? Well, NewTek plans to implement them as plug-ins. Basically they become mini-applications.

MODELER

Modeler now features multilevel undo and redo. (I really wish Layout would get this.) The Bevel requestor has been modified and two buttons have been added: Inner and Outer. The Outer setting has the same effect as entering negative numbers in the Inset and Shift fields. A new feature also lets you name the added bevel polygons. This is handy because you often want to be able to independently turn smoothing on for this surface. For Metaform, a smoothing angle option has been added.

When you start a new Modeler session, you can elect to clear existing data only. This is great because it only removes object data from the layers. All other settings are untouched. Another nice new feature is the ability to assign window-views to the numeric keypad.

An interesting change is that measurement units are now entered into the numeric fields. The default is either meters or feet, but you can mix the two conventions. You can even enter formulas—for example: 2m/4'+5.2ft-42cm. I found that really complex equations don't always arrive at the right answer, and sometimes "ft" or "in" works better than single or



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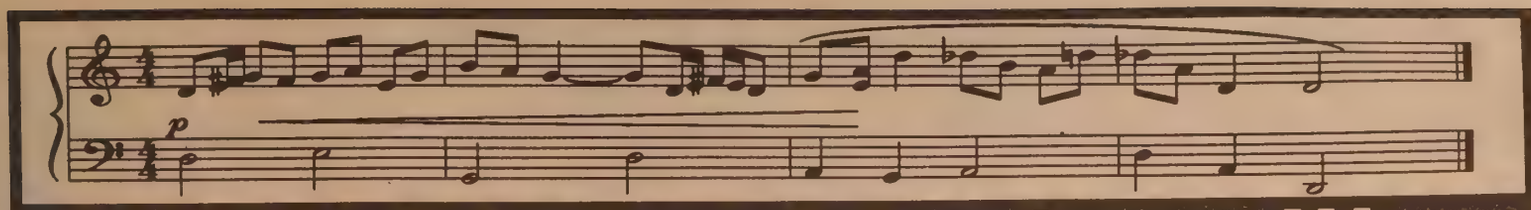

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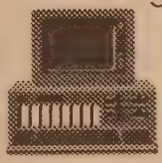

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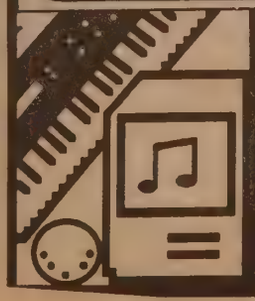

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AMIGA *continued...*

double quotes. In any event, this feature provides a quick way to convert between feet and meters or vice versa.

One feature missing from the PC version is the moving Preview. You can show a solid preview of your objects, but they can't automatically rock back and forth. This is a nice feature in the Amiga version because it gives you a better 3-D feel for an object.

WHAT ELSE?

Hiip support will be implemented in the final version so you'll be able to save and load images in many formats. Modeler will also be able to load and save DXF, Wavefront, and 3D Studio objects. There are new updated manuals for Layout and Modeler, plus a short addendum for added features.

SPEED

It has been well documented that for raw rendering power a Pentium PC will beat an '040 Amiga, but the upcoming '060s should help narrow the gap.

However, neither can compare with a DEC Alpha. I had the opportunity to see one in action at T. S. Computers in North Hollywood. After seeing it render one of the sample LightWave scenes, with all raytracing options and antialiasing on high, in the time my machine does a wire-frame preview, I got a really bad case of hardware envy.

SYSTEM REQUIREMENTS

PC LightWave needs a 386/486, Pentium, Alpha, or MIPS CPU, Windows (NT or 3.1 or later), 16MB RAM, 20MB hard drive space, and a Super VGA display (640 x 480 x 256 colors minimum). (There will be a version for SGI also.)

The package includes a ton of objects, surface files, scenes, and images. Beginners will find this particularly helpful. Besides, it is kind of cool being able to render something created by some of the masters of 3-D.

ALWAYS A STEPCHILD

Despite some glitches here and there, LightWave on the PC seems every bit as good as it is on the Amiga—some things are better, some worse. Of course the nice thing about running it on the PC is that you have access to a plethora of software and hardware.

For now, Windows NT is the OS to use. It's faster than Windows 3.1 (reportedly up to two times faster), 32-bit throughout, has preemptive multitasking, and supports long filenames. We'll have to wait and see if Windows 95 is a good alternative. For the CPU, the DEC Alphas provide the most bang for the buck.

The ironic part of all of this is that if an Amiga user opts to run NT and a DEC Alpha, he'll still be a "stepchild." I can't say I've seen too many native NT software packages compiled for the DEC Alpha at Target or CompUSA. (It's never a perfect world, is it?) ■

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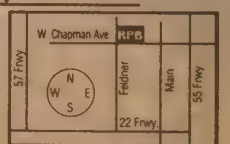

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Mutilaudio

Sound Experiments On The Digital—And Legal—Frontier

Most days, David Gans can be found hunched over his keyboard, staring intently at the monitor as he manipulates fragments of sound, playing them back for the umpteenth time. The screen displays a stack of horizontal windows, each of which contains jagged vertical lines reminiscent of oscilloscope readouts. Gans is trying to match up the same series of words, as he recorded them from five different people.

To the casual listener, it is impossible to discern the differences between one playback and the next. As Gans shrinks the snippet of sound from a two-second, three-word phrase to a single word, to a quarter-second-long individual letter, it also becomes difficult to remember what the sound was in the first place. But he is alert to every audio nuance. This is his livelihood, and he is very good at it.

David Gans is a radio producer, an author, and a musician. His bread and butter is the weekly syndicated *Grateful Dead Hour*—a radio show he has produced since 1987—which airs on seventy-two stations nationwide. He also hosts *Dead to the World*, a weekly show on Berkeley's KPFA (94.1 FM, Wednesdays, 7–9 pm)

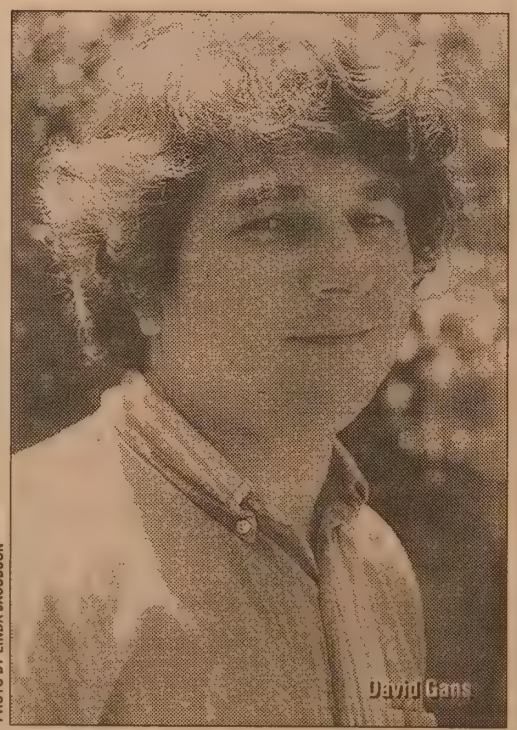

PHOTO BY LINDA JACOBSON

that offers an hour of Grateful Dead material and an additional hour of what he calls "free-form whatever." He produces *Eyes of Chaos/Veil of Order*, a radio show of eclectic music hosted by Phil Lesh and Gary Lambert.

Gans also experiments with a process he calls mutilaudio. He defines it as "a form of sound manipulation using preexisting recorded material." This definition fails to capture the full impact of his complex sound work, which can take the listener on a long, strange trip, indeed. His compilation "Skelvis! The Soundtrack," a fifteen-minute paean to Elvis Presley originally created for the Grateful Dead's Mardi Gras parade, is composed of scores of Presley recordings broken into an aural assault of jagged fragments.

"It took about a day and a half of solid work to create it," Gans said, noting that his inspiration for the piece came from an evening of channel surfing. "I happened to catch a documentary about Elvis on TV, and I recorded it... Then I went through it and collected different voices saying 'Elvis Presley' and put them, plus two CDs of Elvis songs, into the computer."

Using easily recognizable tidbits from much of Presley's work—four five-note refrains from "Jailhouse Rock," the "go, go, go" from "Blue Suede Shoes," the words "all shook up" looped in on themselves tighter and tighter until only the "sh" can be heard in mimicry of the sound of brushes on a high-hat—Gans layered sounds laid atop sounds, overlaid them with the voices

continued on page 239

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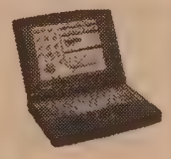

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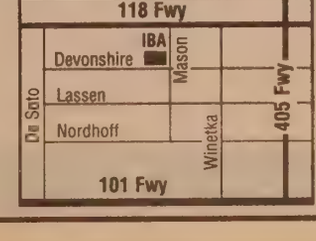

Multimedia Authoring

Choosing An Authoring Package To Meet Your Needs

In the late '70s, Nicholas Negroponte, the director of MIT's Media Laboratory, predicted that the broadcast, print, publishing, and computer industry would merge to form a new direction in communications technology. This vision has come to pass in the form of multimedia. Software has changed significantly over time in two ways to accommodate this merge. The first is in the ability to integrate many different types of media together, and the second is in the ability to create an interactive environment for the user.

These are also two of the key concepts in multimedia authoring packages—the ease of the *integration* of graphics, text, sound, audio, and video, and the ways in which *interactivity* is achieved. A multimedia authoring tool is essentially a program that lets a developer create the interface and the "environment" where the user navigates through the various parts of a multimedia title. All of these parts (graphics, text, video, animation, and audio) are called "content."

Authoring tools vary widely in their capabilities. At the high end, features can include true multitasking authoring environments, the ability to compile code within the program, and extensibility (the ability to communicate with other programs). Lower-end packages are primarily media integration tools that run "slide-show" type presentations.

Whether the multimedia application you are developing is for CBT (computer-based training), corporate presentations, CD-ROM titles, courseware, edutainment, multimedia kiosks, sales and marketing demonstrations, or electronic training manuals, choosing an authoring package requires investigation and comparison.

No single package will always meet all your needs, and in fact, many developers use several authoring packages.

First determine the type of end-user and what platform(s) to develop and deliver on. Then, look at the software currently used in-house (text, graphic, animation, video). Are the authoring package's files compatible? If not, can they be converted? Does the package have the ability to process digitized sound, MIDI or CD-audio files? What video file formats are supported? Other things to keep in mind are issues related to file and data storage and retrieval and database access. Third-party CD-ROMs such as IB&C's Instant Buttons and Controls (for Macromedia Director) can provide quick libraries of buttons and widgets.

You need to also consider a package's ability to handle color palettes. There are two main issues. One is the ability to dither down a quality image from a 24-bit to an 8-bit image. This is necessary since 8-bit (256-color) is currently the most universally compatible graphics mode. (Note: this may eventually change when 24-bit graphics cards become the new standard.) Secondly, it is important to understand how easily you can create, edit, and transfer custom palettes. If the package does not handle the manipulation of color palettes, you will need to find third-party utilities or image-processing packages that allow you to do this. Keep in mind the need for compatible file formats so

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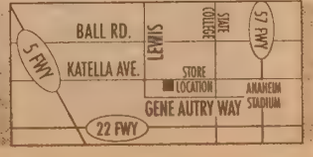

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MULTIMEDIA AUTHORING *continued...*

that the processed files can then be imported back into the authoring package.

DIFFERENT TOOLS FOR DIFFERENT TASKS

Asymetrix's Multimedia ToolBook 3.0 CBT Edition is the computer-based training version of their popular Multimedia Toolbook for Windows. It is excellent for managing multiple courses, glossaries, and quizzes and for creating an event-driven learning environment. The scripting language, OpenScript, is also event-driven. The authoring metaphor is an intuitive book page format. This package is efficient, powerful, and easy to use. It allows you to create user interfaces with a variety of controls including buttons, 3-D objects, drag and drop, and Object Linking and Embedding (OLE).

Quest 5.0 for Windows is a sophisticated authoring package which has matured nicely. It offers a unique dual authoring environment. The design, or meta level, is for laying out the "big picture" and the frame, or micro level, is for filling in content details. Most authoring packages' flow chart icons are plain or simply labeled, but Quest's are small postage stamps of the actual screen, complete with all of its elements.

Quest 5.0 is an ideal choice for educational and interactive training applications because it offers interactive branching and answer judging features, and it is highly extensible. It has a FastTracks library of reusable multimedia elements such as buttons and menus. It has an embedded authoring language called Quest C which lets nonprogrammers choose objects to create "C" code. Quest Services provides programmers access to Microsoft Windows API calls and DLLs. Also, C code can be compiled internally without having to go to an outside editor.

Macromedia Director 4.0 offers binary file compatibility so that applications created in Windows or Macintosh can be seamlessly delivered and played back on either platform. Director is easy enough for entry-level developers and powerful enough for the most sophisticated multimedia producer. They recently introduced the Director Multimedia Studio for Windows and Macintosh, which provides developers with a complete cross-plat-

continued on page 241

HERE ARE SOME KEY

points/questions to consider when purchasing an authoring package:

* What platform will you develop on?
* Who is the end-user?
* What platform will it be delivered on?
* Do you need cross-platform delivery?
* Does the price include a runtime version with an unlimited distribution license?
* Can it access external programs?
* What level of media integration is needed?
* How extensible is the package? For example, does it have the ability to edit DLLs for Windows or XCMDs for the Macintosh?
* Does it provide a scripting language or C++ libraries?
* How will it meet your content experts' and staffing needs? Are they heavily programming oriented? Will it suit their needs or require too long a learning curve?
* What is the authoring metaphor—icon, page, timeline, frame, book page, etc.? Which best suits your content experts' skills and production schedule timelines?

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It's the perfect package for the LINUX beginner!!! The CD-ROM set includes a Quickstart booklet for the anxious installer, and also includes extensive on-line documentation from the Linux Documentation Project, plus the Network Administrators Guide" on line, by Olaf Kirch. We even include all of the HOWTO docs on every subject pertaining to Linux. This is the most complete beginner kit available and Infomagic is pleased to offer tech support to those who need help getting started. Plus all the in-outs about internet and more!!!

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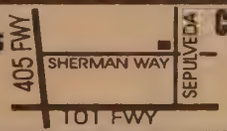

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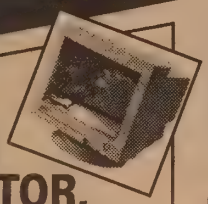

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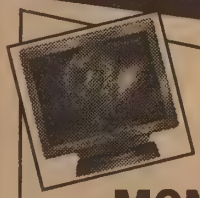

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New Games Advance The Edge

A Preview Of Holiday Offerings

Game development is the place to look if you want to see where multimedia is going.

Recently I had the chance to see a Christmas preview of products in pre-release and alpha versions—the newest of the new. Sponsored by Virgin Interactive Entertainment, developer-publishers who also umbrella titles from a large number of affiliate label independent developers from the US and the UK, the preview disc offered a wide enough range to be representative of industry trends.

Media trends? Of the twenty or so titles I saw in development only one—Cinematronix's *Tri-Tryst*—was being issued on a floppy disk version. Everything else was on optical formats or cartridge; CD-ROMs for Mac and PC and Sony Playstation, 3DO, Sega Saturn, Sega Genesis, Sega 32X, or Super NES. Several titles are in two-, three-, or four-disc packages. There are more hybrid discs being published. I think this speaks for a large and growing installed user base of CD-ROM players.

Many of the games are exhibiting next-generation graphics: more 3-D rendering, modeling, and texture mapping for greater expressive realism. Three-D human figures are becoming dependably naturalistic, allowing them to take center stage. Artificial intelligence (AI) is becoming more common in the programming mix. Game animation is beginning to equal and rival screen animation. More and more live video sequences are being included in different kinds of games.

Above all, there are more different kinds of online networked games than I've seen before. Here are just a few of these interesting new game titles.

Promised Land

FUTURE GAMES

Music itself is also being incorporated into more multimedia titles, as musicians have become increasingly collaborative in multimedia.

Promised Land showcases the heavy metal band Queensryche in a hybrid two-CD set—one disc features the game, and the other the two thousand photos and documentary footage of concerts and interviews with

BY TONY ALEVEAUX

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NEW GAMES *continued...*

the band and music tracks. It was produced by David Traub's Santa Cruz-based team for EMI Records, and authored in Apple MediaTool.

A different artist was assigned to each band member. They spent time together plumbing the psyche, imagination, values, and dreams of the musician. The result is a multimedia tour of five very different fantastic, navigable, Myst-like environments that are like four-dimensional rock posters.

A complex five-level game thread runs through *Promised Land*. According to the producers, users can experience up to fifty hours of game play wending their way through the 3-D environments. Online samples and support will be available via the Queensryche site on the Internet.

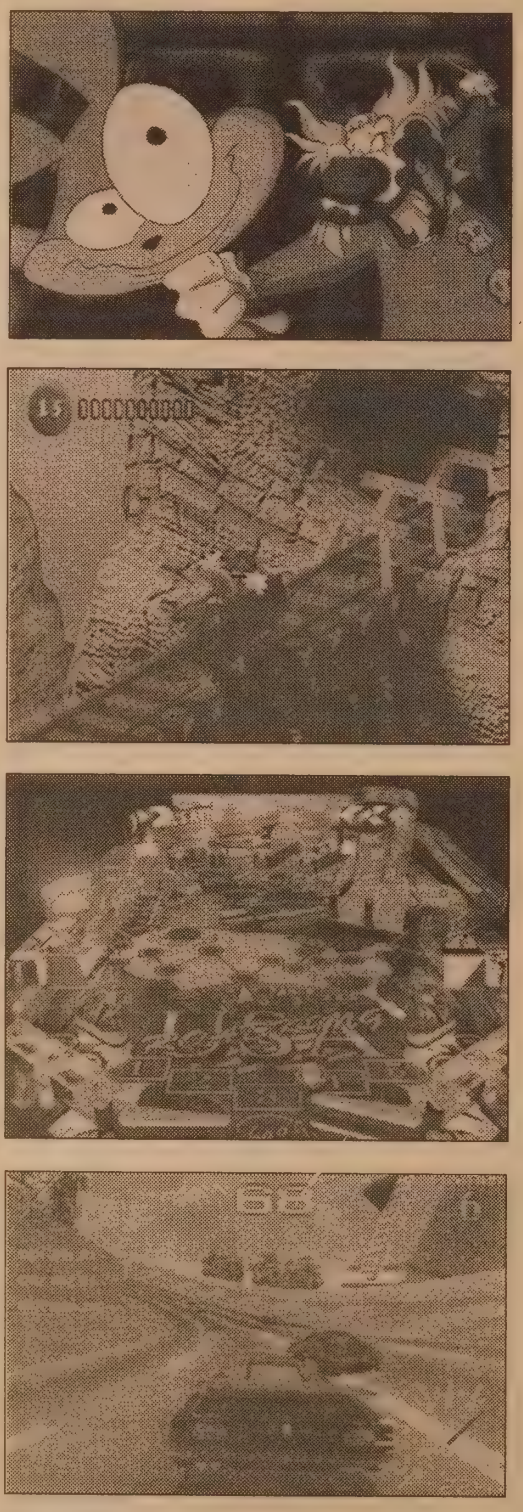
Virgin's sophisticated in-house production teams are readying two smashingly advanced animation-based games. I couldn't get over the high-quality, Disney-level character animation I saw in the tests of *Spot Goes to Hollywood*. Based on the red POG-in-sunglasses disk character of 7UP commercial fame, it is a kids' Mario/Sonic multilevel chase-'em-race-'em, but the richness and expressive humor are a delight to see. The Spot animation team of eighteen is the largest in the industry. Too bad it is just for game machines and not PCs.

ToonStruck stars Christopher Lloyd as an animator whose rebellion unleashes the dark side of his subconscious, which manifests itself in a twisted, surreal world where Lloyd is the victim of mad and aggressive cartoon characters. Only by solving the problems of this hysterically out-of-control world can he return to his own plane. This is an adult-level Roger Rabbit combination of live action video incorporated into fifty thousand frames of computer animation. Art and design are being done at Virgin, and the animation in Canada and the Far East. The twenty to fifty hours of playtime involve fifty different characters, one hundred locations, and many mini-games.

NEW DIMENSIONS

What you'll see on your monitor will look even better than last year's games.

Terra Nova is a first-person futuristic combat game displaying a full outdoor renderer. Cloud layers are independently animated. Instead of putting haze in the background to simulate depth, this game lets you go in every possible dimension, as the topography is fully extended and navigable. Different planet landscapes have matching gravity physics and atmospheric densities. The enemy has AI, learning about your behavior and changing tactics accordingly.



Top to bottom: ToonStruck; Spot Goes to Hollywood; Hyper 3-D Pinball; Screamer.

Cyberia2 from Xatrix has one of the most powerful real-time 3-D graphics engines, and the most realistic human figures. *Alien Alliance* has the most beautifully done texturing and mapping, giving the other-worldly ships, alien characters, and environments a *Babylon 5* quality of professionalism and sense of wonder. And of course, Trilobyte's *The 11th Hour: The Sequel to the 7th Guest* is render city. The original 3-D graphic structure files of *The 7th Guest* have been rendered and texture mapped to present the Stauf mansion as suffering the decayed neglect of decades. The four-disc package has sixty minutes of live-action video and smoother 3-D graphics than the original.

Hyper 3-D Pinball is so realistic in its action and gleaming machine-like finish and paint job that I got in trouble shaking the monitor to boost a flip. You can shift to different points of view on the board during the play. The only thing missing is a POV from the ball's-eye-view. Everybody sweated bullets playing *Screamer*. This Pentium-driven road racer sim has such good on-the-fly polygon rendering that it gives you a real tactile, butt-in-a-booth arcade experience from the desktop.

NETWORKING GAMES RULE

In sixty years Monopoly has become the most popular board game in the world, marketed in over forty languages. Many countries have different versions of the familiar terrain.

Virtual Monopoly on CD-ROM re-creates the board game for the computer screen. It will support networks and modem playing and is playable over the Internet. The first release will contain four languages: English, American English, French, and German. Players can play simultaneously online, with the programs translating on the fly. There is actually a limited amount of text in Monopoly, and that can be stored, sorted, and translated. Money is coded in base units of one currency denomination, so that prices translate proportionately. Each property has 3-D animation scenes that express the character and status of the address, and sound effects and music accompany all of the actions. There will be a Monopoly page on the Internet where players can get information and connect with other players.

The game *Screamer* can link up to six players via a network. *Indycar Racing II* can host up to thirty-one players competing on Papyrus's Multi-

continued on page 204

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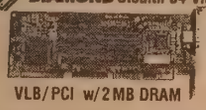

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VLB IDE CARD	Mouse
	Optional Multimedia*

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VLB IDE CARD	Mouse
	Optional Multimedia*

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- High Resolution Serial Mouse
- 4X CD ROM Drive
- Creative Labs Sound Blaster 16
- 14-Watt Amplified Speakers
- Grolier Multi Media Encyclopedia
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Full Tower w/250W p/s & dig. disp.	Call

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Note: Kit includes Novel, Unix, and misc. drivers
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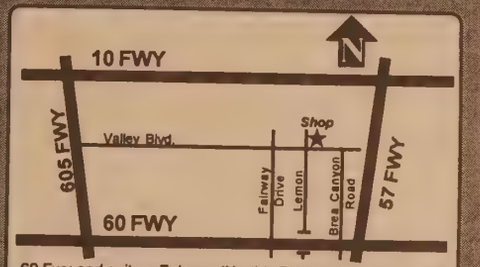

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4X Speed: Sony (IDE)	$148	Call
4X Speed: Teac (Panasonic Interface)	$130	Call
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 continued from page 99

the show by placing more than fifty of its 8100/100-flavor machines around the floor. Radius and DayStar Digital also invited people to pound away on their new clones. The BMUG booth had Power and Radius boxes for attendees to play with.

The BMUG Zone

BMUG's booth at the Expo also showed off the latest edition of the semiannual *BMUG Newsletter*. The book (we call it a newsletter, but it's hundreds of pages long) is filled with great stuff and has in-depth articles on the forthcoming Copland operating system, OpenDoc technology, and World Wide Web tips, as well as more than seventy reviews.

Hans Hansen, BMUG's publications manager, did a neat less-is-more trick with this newsletter. By tweaking the layout and shrinking the typeface, he jammed 700 old-style pages of information into 344 pages; the process also saves BMUG dough for shipping and handling.

Instead of a floppy disk, this newsletter comes with a CD-ROM disc featuring 200MB of shareware and 50MB of updates for commercial products, as well as many versions of Apple system software, utilities, and updates. The disc also has demo versions of some programs found in the BMUG Choice Product list, so you can try something out and see if you agree with our selections. In addition, the CD also has a number of terrific audio tracks done by BMUGer Manabu Ishikawa, a San Francisco Bay Area composer.

If you want both of these perfect additions to your Mac library, all you have to do is join BMUG and you'll get the pair as well as a bunch of other benefits, including our Planet BMUG online service. You can call the BMUG office at 1-800-776-2684 to become a member. Please also take a peek at our new Web page at *http://www.bmug.org/*.

Expo Expository

There were many exceptional products introduced at the Expo and too many to enumerate here. But that will not stop me from running on about a few standouts:

•The program at the top of many BMUGers' lists was PageMill, an editor for World Wide Web pages from Ceneca Communications. The $195 software has a graphical user interface and works much like a word processor. "I want it *now!*" said Lorca Hanns, one of BMUG's primary Internet gurus.

PageMill looks just like a Web browser, but with a special toolbar across the top. It gives you a WYSIWYG environment to create a page. Instead of having to fuss with the HTML (HyperText Markup Language) code that is the foundation of a Web page, you can drag and drop text and graphics on the document as well as move them around as you would in a draw program.

PageMill has tools to do all the fancy stuff that people are unfortunately crowding their pages with, including background colors, pop-up lists, and radio buttons. The program has a pretty good image editor and can convert PICT images to GIF automatically.

Another Ceneca program that had people jumping up and down was SiteMill, a $795 Web administrative tool that helps managers maintain hypertext links at a site.

One of the major headaches dealing with a Web site is broken links. Whenever an image file is renamed or files are moved, the corresponding links are broken, since all the links refer to the old names and pathways. The result of this is the infamous Error 404 message that is familiar to all Web devotees.

SiteMill maintains the links and gives managers a graphical overview of all the images, files, and folders on a site.

•Hans Hansen put his hardware vote in for Casio's $999 QV-10 camera. Unlike the QuickTake 150, the QV-10 is quite small, about the size of a small film camera. It has the look of Sharp's video camcorder, with a back-panel color display and a side-mounted swiveling lens. You can move the lens up and down while you peer down into the display—then click!

The camera's little LCD lets you check out the shots you've taken and clear out the ones you don't want to keep. It can show the images one at a time, or up to nine fingernail-size ones at once. It holds an amazing ninety-six images, but the shots don't have the resolution of the QuickTake.

A cool feature is the ability to upload PICT and TIFF images from your Mac to the camera. You can then show them to people on a television using the camera's video-out port.

There was other camera news at the Expo. If you're into QuickTime VR, Apple's new virtual reality environment, you might want to check out Kaidan's new $109.95 QuickPan tripod head for the QuickTake 100 or 150.

QuickPan lets you pan automatically to various positions for the proper overlap of shots needed to create images used by VR technology. It was very neat and can mount on any tripod.

•Connectix wowed the crowds with its release of SpeedDoubler, a utility that speeds up 68K emulation for Power Macs and optimizes the way that the Finder copies files. It reportedly can give you an 80% to 100% boost in performance! Pretty good for only $99.

•Paris Business Products showed CompuNotes, some interesting personal accessories. The company takes old scrap motherboards, without the chips, resistors, and other parts, and uses them as the covers for notebooks, clipboards, journals, and address books. A small journal notebook cost me $10. Their letter-size three-ring binder has plenty of style, but it unfortunately also weighs a ton, even without paper. But if you're in buff condition then check it out. ■

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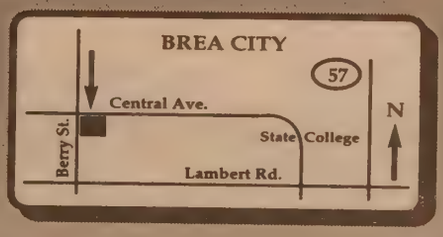

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BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic hand-holding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM.*

Planet BMUG and BMUG Boston are graphical user interface FirstClass bulletin board systems, offering the latest in shareware, as well as news, private email, rumors, etc. With our 18-line capability, you can have access to BMUG almost 24 hours a day. It's easy to use, fun, and a great resource.

BMUG can be found on most online services, including e•World. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com* .

To get some further information about BMUG please write to: BMUG, 1442A Walnut Street, #62, Berkeley, CA 94709. If you prefer to phone our business office, call (510)549-BMUG, or fax (510)849-9026.

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Basic Privacy Procedures

continued from page 106...

Nautilus is the first program of this type that I know of to be distributed for free with its source code. A few similar commercial programs have been distributed without source code. But this renders independent examination of the quality of security they provide totally impossible.

Basically, Nautilus uses your computer's audio hardware to digitize and play back your speech using a proprietary speech compression routine included with the program. It encrypts the compressed speech and transmits the data through your modem and across the Internet to the other person's computer. At present, the program is half-duplex; you must hit a key to switch between talking and listening. But full-duplex is said to be in the works.

> The Electronic Communications Privacy Act of 1986 set a new

Nautilus generates its encryption key from a shared secret passphrase that you and the other person choose. Because Nautilus does not incorporate any form of public key cryptography, you must communicate this passphrase by some other secure means before you make your call.

> standard by allowing telephone companies to sell their records

You can download Nautilus in two different formats: The file "nautilus-0.9.0.tar.gz" contains the program's complete source code, while "naut090.zip" contains an MS-DOS executable file and appropriate documentation for it. [See sidebar.]

Note: Under current law, Nautilus is legal only for domestic use. Anyone who sends the program beyond US borders is liable for prosecution.

> of our phone calls to almost anyone who wants them.

Because v9.0 of Nautilus is presently a beta test version, there is at least a logical possibility the security system has flaws. Bill Dorsey, Pat Mullarky, and Paul Rubin, who wrote the software, advise against putting too much faith in the security of this version until it has undergone more third-party reviewing. They encourage cryptographers and users alike to examine and test the program thoroughly, and to let them know of any problems. They hope to release an updated version fairly soon that fixes any serious bugs found in the beta test version.

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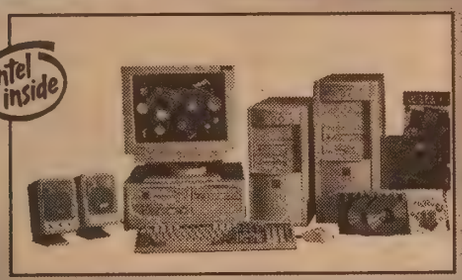

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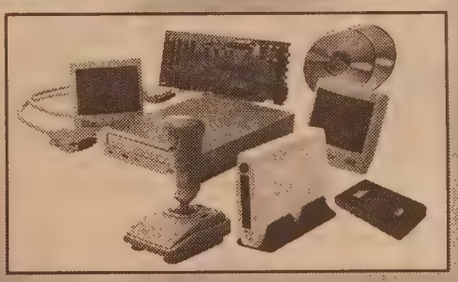

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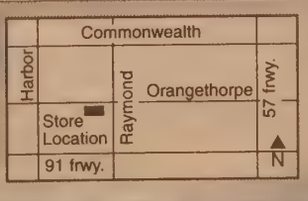

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For more information, or to contact the developers, send email to *nautilus@lila.com*.

Computer File Privacy

According to André Bacard, who wrote *The Computer Privacy Handbook: A Practical Guide to E-Mail Encryption, Data Protection, and PGP Privacy Software*, "very few people use an encryption system, even though they should. In fact, even encryption software people don't always use one."

This is not only a shame, it's a downright shame because encryption is so easy to use. [See "Pretty Good Privacy," *MicroTimes*, no. 136, May 1, 1995 for an explanation of just how easy it can be.]

Look for Nautilus at the following "export controlled" FTP sites:

ftp://ripem.msu.edu/pub/crypt/other/. Read */pub/crypt/GETTING_ACCESS* for information on access.

ftp://ftp.csn.org:/mpj/I_will_not_export/crypto_???????/. Read */mpj/README* for information on access.

ftp://miyako.dorm.duke.edu/mpj/crypto/voice/. Read */mpj/GETTING_ACCESS* for information on access.

To begin with, Bacard counsels that—once you have created and edited a file to your liking—you encrypt it with both your intended recipient's public key and your own.

Using PGP, for example, you simply specify two public keys instead of one before you give the command to encrypt the file. The encryption still takes place in a single pass, and takes no more time than if you had encrypted the file only for your recipient.

Once the file is encrypted, you can and should keep a copy of this encrypted file on your own computer. Whenever you want to read it, you can decrypt it with your own private key. In the meantime, no one but you and your intended recipient can read what you've written.

Once you've converted your file to encrypted form, be sure to use some form of "disk wiping" utility software—like the ones you get with Norton Utilities or Central Point Software—to thoroughly erase both the original (clear text) version of your file, and later any clear text copies you make when you decrypt the file to review what you've written.

As a practical matter, Bacard believes, files longer than about 50K are tedious to send via email. For a longer file, it's often practical to put it on a disk and send or carry the disk to your intended recipient. As long as the file is properly encrypted, the actual channel you use—email, sneaker-net, or the US Post Office—is immaterial. Since no one can read the file, your only concern is that it actually arrives.

For a little extra security, you can digitally "sign" the file so your recipient can be certain it remains as you sent it, regardless of whether or not it has been intercepted en route.

Next month: A discussion of digital signatures—are they legally valid? Also, a continuation of our quest for privacy through the use of anonymous remailers, and more! ■

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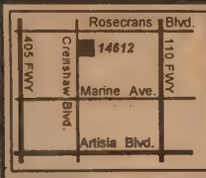

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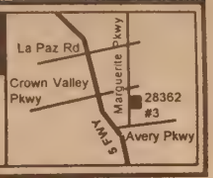

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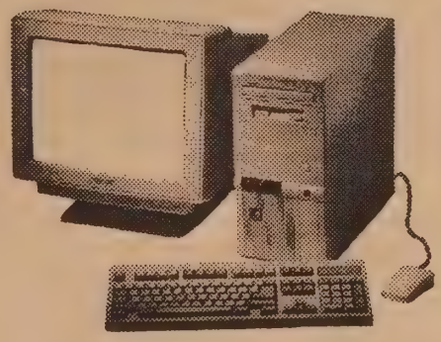

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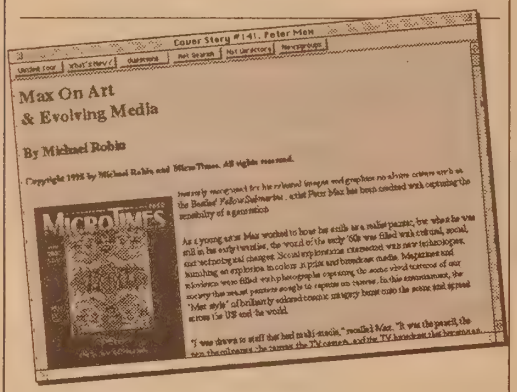
Last month we invited you to come help us design our World Wide Web site, and we're pleased to report that lots of you took us up on it. We received lots of visits and many useful suggestions, and we're hoping to be able to implement some of them as the venture progresses. Not only do we want you to keep visiting and suggesting, we'd like you to bring your friends!



Among the offerings you'll currently find:

- **General Information:** How to subscribe, how to advertise, where to find an issue, etc.
- **Cover Stories**
- **The Great Mall of MicroTimes:** Links to advertisers' home pages
- **Family and Friends:** Links to writers' home pages, and other interesting stuff.
- **Resources:** Calendar of Events, User Group/BBS listings, classified ads.

And, of course, linked for your netsurfing pleasure, our own Web page listings.

So head on over to *http://www.microtimes.com/* . Explore. Tell us what you think. Tell us how we can make it better. Email us at *microx@well.com* .

—Editors

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Letters *continued from page 32*

Volunteers choose their own schedules and levels of commitment.

We're especially excited about recent successful ventures with several school districts. In San Francisco, mentors have had a major part in making hundreds of used computers available to students; setting up new telecommunication systems for schools, students, and parents; and helping produce dozens of student publishing projects. This work is now restarting—on a much larger scale—for the new school year.

Right now CompuMentor especially seeks mentors with established skills who can offer to install, support, or tutor end-users in any of the following: Online systems/Internet/BBS; basic DOS and Mac hardware setup; desktop publishing; ISDN connectivity; multimedia applications; small to medium LANs; user-friendly database systems; and technology needs assessments.

If you'd like to share your computer skills, please contact us for more information! In San Francisco, call (415)512-7784, or send email to *cmentor@well.com* .

Our motto is "Helping People Use Computers to Make a Difference," and you can contribute to making that motto a reality!

Stephen Brown
Program Executive
CompuMentor
San Francisco

Express Yourself!

Send Letters to the Editor to us at these addresses:

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MULTIMEDIA 101 *continued from page 171*

The tide of youthful rebellion rose nearly simultaneously in many places and eventually swept through most of the globe, perhaps having further-reaching effects in countries such as Czechoslovakia than in the United States of America.

only between phrases but even in the middle. It's very disorienting and annoying and quite seriously undercuts much of what he says. The shorter segments in the Drop Out game run much smoother.

It's not such a big problem, but at least two of the links from the Tune In database are reversed, taking you to the other's piece of artwork.

However, as anyone who's tried it knows, a project of this size using currently available technology is a major undertaking. Many of these difficulties appear to be the result of factors beyond Rockument's control. In particular, I'd guess that a good number of them were due to the title being cross-platform, using "vanilla Director and Lingo," as Bove puts it, without X-objects and other system-specific enhancements. Depending on the type of title involved, the costs associated with this approach can be high. For example, in this case, all the text is bitmapped—no cutting-and-pasting from *Haight-Ashbury in the Sixties!* for your kid's homework—and there's no search engine; one would have been nice, although it's not a fatal flaw with the generally very-easy-to-scan aspects of the Tune In database.

Even with these shortcomings, *Haight-Ashbury in the Sixties!* is a successful multimedia piece. The discs are stuffed full of valuable archival material that should be of use or entertainment to anyone with any interest in the hippie iteration of Bohemian proto-culture. ■

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NEW GAMES *continued from page 190*

Player online service; *Agile Warrior: F-111X* has a multiplayer option. *NBC Sports Presents the 1995–1996 NFL Interactive Yearbook* will stay up-to-date with access to RealTime Sports Online; *Tri-Tryst* can engage in network or modem play for head-to-head competition; and players in *Z* can battle against another player using a serial or modem link or link up to four machines on a network. Online games through the Internet and the World Wide Web are an increasing presence that will soon link millions of players together.

NET STUFF

Netscape & HTML Explorer by Urban A. LeJeune with Jeff Duntemann (Coriolis Group Books, 723 pp+CD, $39.99) is one of the best all-around Web references you will find. Everything is here to getting online, creating home pages, editing and maintaining them, and configuring and customizing Netscape. The CD includes tons of Web publishing goodies. But this package is just as useful for understanding all the parts of the Internet and reading HTML documents.

Atlas to the World Wide Web by Bob Powell and Karen Wickre (Ziff-Davis Press, 220 pp+CD, $29.95) provides an accessible introduction to the paths of cyberspace, which includes a fold-out roadmap and a directory for hundreds of cool sites that is clear and stimulating. The CD contains the fully hyperlinked addresses and the Netlink Internet Access Kit.

Now that you've got your Web legs, its time to turn to *The Internet International Directory* by Mitzi Waltz (Ziff-Davis Press, 526 pp+CD, $34.95) with over three thousand Internet sites from "the practical to the truly bizarre." With the CD in your drive, its click 'n' link. Now, with the invisible borders of the international Internet, a regional guide of site URLs might seem to be redundant. But *Internet San Francisco* (Hayden Books, 118 pp, $12), one of a series, helps us to see how our village is global and to connect with it. You will find local grassroots discussions, university access, restaurant guides, weather, museums, and classifieds. And it will fit into your laptop case. ■

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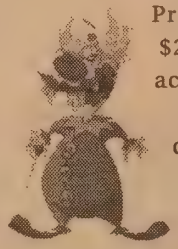

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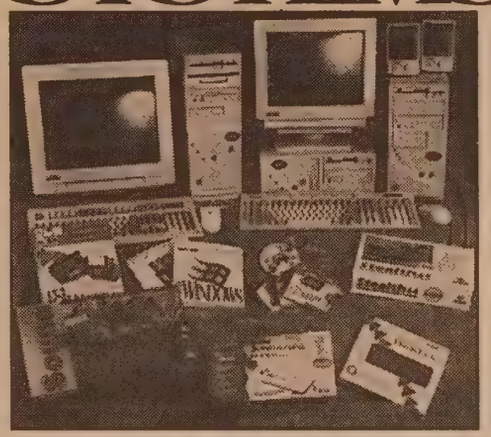

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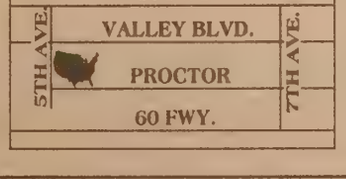

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New Products *continued from page 118...*

The Underground CD-ROM Handbook For The SAT

This new educational CD-ROM is a multimedia version of Workman Publishing's book *Up Your Score* that was authored by four students who aced the SAT and went on to an Ivy League university. It presents tips, techniques, strategies, and teenage attitude needed to psyche out the SAT. The program allows students to continually appraise their skills in subject areas and to take an SAT mini-test that adjusts scores, giving them an accurate measure of their performance. Quirky, animated study breaks pop up between lessons and cover subjects such as how to smuggle food into the test, and how to concentrate when the person next to you is tapping their foot. ($49.95, available on a hybrid CD-ROM for Macintosh and Windows) Swifte International, Inc., Stone Mill Office Park, 722 Yorklyn Rd., Hockessin, DE 19707-8701. (302)234-1740.

Megapak Volume 3 For PCs

Megapak Vol. 3 for PCs is a package of ten full-version CD-ROMs from top publishers that offer a wide range of titles. The CDs included are *Megarace* by Mindscape Inc., *TFX—Tactical Fighter Experiment* by Ocean, *The Vortex—Quantum Gate II* by HyperBole Studios (three-CD set), *Novastorm* by Psygnosis, *The Journeyman Project Turbo* by Sanctuary Woods, *Reunion* by Merit Studios, *Dragon's Lair* by Readysoft Inc., *Cyclones* by SSI, *Lemmings Chronicles* by Psygnosis, and *Jammit* by GTE Interactive. Megapak Vol. 3 is available in Spanish and German versions (in addition to English), and product descriptions and pictures are available through the World Wide Web at *http://www.megamed.com* . ($39.95) Megamedia Corp., 1701-E Fortune Dr., San Jose, CA 95131. (408)428-9920.

Under Pressure

Under Pressure is a new Windows 95 desktop puzzle game that tests the player's ability to think strategically while racing against the clock to get to the next level. It is set up in modules so players can access a level through a password and play for as little as a few minutes—or while they are on hold. Players maneuver through a labyrinthine maze of walls and other obstacles while trying to move different types of colored chips along the tiles into their respective energy tanks at various locations on the board. They receive points each time they get a chip into a matching tank, and advance to the

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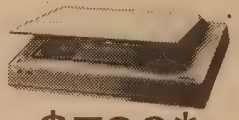

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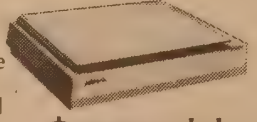

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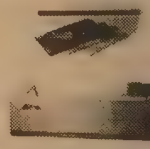

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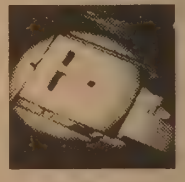

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next level when they score the required number of points before the clock runs out. There are a total of sixty levels, and the game is accompanied by mesmerizing music and sound effects which can easily be turned on and off. ($29.95) StarHill Productions, 139 Townsend St., San Francisco, CA 94107. (415)442-5000.

Reviews

CD-ROM Reviews

Moving Textures 100

Published By: Precision Computer Graphics
List Price: $294 JPEG format; $229 IEF formats (fewer series)
Reviewed By: Douglas J. Nakakihara

Even the best computer-generated textures are no match for Mother Nature. The real thing seems to always look better. Fortunately there's Precision Computer Graphics' Moving Textures 100 CD-ROM, a collection of royalty-free stock footage designed specifically for computer animations.

This CD-ROM contains two categories of images: true maps and effects maps. True maps are full-color images of clouds, fire, the ocean, smoke, and steam. These are meant to be mapped directly onto a 3-D object's surface or used as backdrops. Effects maps offer various liquid movements like ocean surf, boiling and flowing water, waves, ripples, etc. These grayscale images are geared toward things like diffusion or bump mapping. Of course, there is no reason you could not use effects maps as true maps, and vice versa.

The images are as beautiful as they are interesting. Most of the maps come with nine hundred sequenced images, although some are shorter. This should provide enough time for most commercial applications. It's a good thing too, since these real-world images don't loop.

The JPEG disc is ISO 9660 and can be used across platforms. However, to use it with an Amiga you will probably need Pegger (Express-Way Software), which can automatically fix the PC naming convention (NAME0001.JPG) that generally prevents most Amiga programs from recognizing the files as a sequence. For 3D Studio users, image file lists are provided. The package even includes a nice reference videotape. Moving Textures 100 will take your animations to a new level of professionalism. (Precision Computer Graphics, 634 N. Glenoaks Blvd., Suite 367, Burbank, CA 91502-1024. 818/842-6542)

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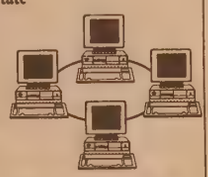

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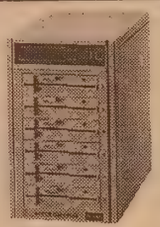

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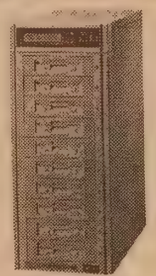

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Diamond Stealth VLB 64Bit 1MB DRAM	149
Diamond Stealth VLB 64Bit 2MB DRAM	197
Diamond Stealth VLB 64Bit 2MB VRAM	277
Diamond Stealth PCI 64Bit 2MB VRAM	277
Diamond Speed Star PCI 64Bit 1MB DRAM SE	91.25
ATi Mach 32 Wonder VLB 1MB DRAM	125
ATi Mach 64 Winboost VLB 2MB DRAM	187
ATi Mach 32 Ultra Plus PCI 1MB DRAM	128
ATi Mach 64 Winboost PCI 2MB DRAM	187
ATi Mach 64 Winturbo VLB 2MB VRAM	277
ATi Mach 64 Winturbo PCI 2MB VRAM	278
ATi Mach 64 Winturbo PCI 4MB VRAM	487
Spider PC-II 64Bit PCI 1MB	132
Spider PC-II 64Bit PCI 2MB	177
Spider PC-II 64Bit VLB 2MB	177
Spider Tarantula 64Bit PCI/VLB 4MB VRAM	417
IDE w/I/O 16Bit	15
IDE w/I/O 32Bit	21
IDE w/I/O 32Bit Enhanced	28

UPGRADES

VIDEO UPGRADE

• Diamond Stealth SE 1 MB PCI	$77
• Diamond Stealth 64 VLB 2MB	147
• Diamond Stealth 64 PCI 2MB	147
• ATI Ultra Plus PCI 1MB	77
• PCI 32 Bit 1MB Video	55
• PCI IDE HD Controller	19
• 32-bit SVGA VESA LB 1MB Video.	38
• 32-bit IDE VESA LB Cntrl.	10

HARD DISK

	420MB
• 540MB IDE HD	$39
• 850MB IDE HD	67
• 1.2GB IDE HD	137

MONITOR UPGRADE

• Techmidia 14" N.I. 1024x768, .28dp	$28
• Shamrock 15" N.I. 1280x1024, .28dp	138
• Sony 15SF 15" N.I. 1280x1024, .25dp	298
• Shamrock 17" N.I. Low Radiation, .28dp	387
• MAG DX-17 N.I. LCD Green, .28dp	477

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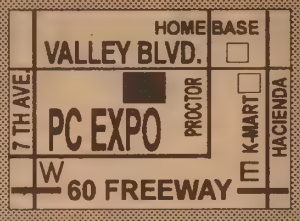

SAT	12:00-6:00
MON	12:00-7:00
TUE - FRI	10:00-7:00
SALES	818-855-9088
FAX	818-855-9087
TECH	818-855-9086

Nx586 SPECIAL

256K Cache **4 MB RAM**
1.44 MB FD **850 MB HD**
VLB Windows Accelerator 1MB
VLB IDE HD & FD Controller with
Hi-speed I/O 2S/1P/1G Ports
14" SVGA Monitor 0.28dp N.I.
8 Bays Tower Case 250W P/S
101 KB & Hi-Resolution Mouse

Nx586 P-90

$999

486 PCI MCD

256K Cache **4 MB RAM**
1.44 MB FD **540 MB HD**
PCI Windows Accelerator 1MB
PCI IDE HD & FD Controller with
Hi-speed I/O 2S/1P/1G Ports
2X CD-ROM,16 Bit Sound Card
Amplified Speakers 25 Watts
14" SVGA Monitor N.I. 0.28dp
8 Bays Tower Case 250W P/S
101 KB & Hi-Resolution Mouse

486 DX-2 66 ***$929***

486 DX-4 100 ***$999***

MANAGER'S SPECIAL

Intel Triton Chipset M/B, 256K Cache, IDE & Hi-speed I/O Supports 75 - 166 Mhz CPU	***$179***
With Intel Pentium-75 CPU	***$369***
Pentium-90 CPU	***$459***
Pentium-100 CPU	***$549***
Pentium-120 CPU	***$749***
SIS Chipset Pentium M/B 256K Cache, Hi-speed I/O & PCI Video On Board	***$229***
Nx586 M/B, 256K Cache & NexGen P-90 CPU	***$339***
486 VLB M/B. 256K Cache	***$89***
with 486 DX2 66 CPU	***$139***
486 DX4 100 CPU	***$199***
486 PCI M/B, 256K Cache Hi-speed I/O (16550 UART)	***$119***
with 486 DX2 66 CPU	***$169***
486 DX4 100 CPU	***$229***
486 DLC- 40 CPU ISA M/B	$69
486 SLC 33/40 CPU ISA M/B	$49/$59

PENTIUM SPECIAL

256K Cache **8 MB RAM**
1.44 MB FD **540 MB HD**
PCI Windows Accelerator 1MB
PCI IDE HD & FD Controller with
Hi-speed I/O 2S/1P/1G Ports
2X CD-ROM, 16 Bit Sound Card
Amplified Speakers 25 Watts
14" SVGA Monitor 0.28dp N.I.
8 Bays Tower Case 250W P/S
101 KB & Hi-Resolution Mouse

Pentium-75

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Pemtium-100 $1379

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Intel Pentium Processor **Intel Triton Chipset M/B**
Pipeline Cache Supports True Green Function
256K Cache Max 512K **16 MB RAM** Max 128 MB
1.44 MB FD **1.0 G.B** Enhanced IDE HD
PCI IDE HD & FD Controller with Hi-speed I/O 2S/1P Ports
PCI Diamond Stealth Video with 2 MB DRAM
Windows & Multimedia Accelerator Video Card
4X CD-ROM SB16 Bit Sound Card 160W Speakers
17" Digitally Control SVGA Monitor 0.28dp N.I.
8 Bays Tower Case 250W P/S 101 KB & Hi-Res. Mouse

Pentium-75 ***$2099***

Pentium-100 ***$2279***

Pentium-90 $2189 Pentium-120 $2479

CASE

Full Size Tower	250W P/S	$65
8 Bays Tower	250W P/S	$50
5 Bays Tower	250W P/S	$32
5 Bays DeskTop	250W P/S	$50

HARD DRIVE

270 MB IDE	$100
420 MB IDE	$139
540 MB IDE	$149
850 MB IDE	$179
1.08 GB IDE	$199
1.27 GB IDE	$219
540 MB SCSI	$169
1.08 GB SCSI	$349
2.0 GB SCSI	$729

VIDEO CARD

ISA 1MB/512K/256K	$69/$35/$25
VLB Cirrus Logic. 1MB	$69
VLB Tseng Lab ET4000 1MB	$79
VLB Diamond Stealth SE 1MB	$89
VLB Diamond Stealth 64 1MB	$119
VLB Diamond Stealth Video 1MB	$129
VLB Diamond Viper 2MB V-RAM	$159
PCI Trident 1MB	$65
PCI Tseng Lab ET4000 1MB	$79
PCI Diamond Stealth SE 1MB	$85
PCI Diamond Stealth 64 1MB	$115
PCI Diamond Stealth Video 1MB	$119
PCI Diamond Stealth Video 2MB/4MB V-RAM	$259/$429

MONITOR

14" SVGA .28 NI	$199
15" SVGA .28 NI LR	$269
15" MAG DX-F .28 NI LR	$339
17" MAG DX-F .26 NI LR	$609
17" KFC SVGA .28 NI LR	$539

CONTROLLERS

ISA IDE I/O	$13
ISA IDE Hi-speed I/O	$19
VLB IDE I/O	$15
VLB IDE Hi-speed I/O	$19
PCI Adaptec 2940	$185
PCI Adaptec 2940W	$245

PARTS

SB 16 IDE / ASP / SCSI	$69/89/99
SB AWE 32 / VALUE	$239/149
14.4 Modem / Voice	$60/65
28.8 Modem	$115
1.44FD / 1.2FD	$25/40
101KB / Keytronics 101	$13/22
Fujitsu / Focus 9000	$36/40
Mouse / Quickshot	$7/9
Logitec mouse	$20
MS-mouse	$25

All Systems carry 2 years labor & 1 year parts warranty. All Prices reflect a 3% cash discount. Prices and availability subject to change without notice.

Resources

Calendar Of Events

Conferences, Shows, Special Events

September

September 18 Hollywood In Cyberspace Conference. Hollywood. Sensational Seminars. Call: Nina Steiner, (310)288-3425 or *nina@sensational.com* .

September 18–21 UNIX Expo '95: The Open Systems Show. New York. Blenheim. Call: 1-800-829-3976.

September 20–22 EdNET 95: The Educational Technology And Telecommunications Markets Conference. San Diego. *The Heller Report.* Call: (708)441-2920 or *hellerreport@delphi.com* .

September 21–22 Digital Shopping And Electronic Commerce Conference And Exhibition. New York. American Expositions, Inc. Call: (212)226-4141.

September 23 Computer Show And Sale. Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 24 ACP Computer Swap Meet. Santa Ana. ACP. Call: (714)558-8813.

September 24 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

September 26–29 Seybold Conference And Expo. San Francisco. SOFTBANK Expos. Call: 1-800-488-2883 or *http://www.sbexpos.com* .

September 30 Computer Marketplace. Sherman Square Entertainment Center, Reseda. National Productions. Call: 1-800-800-5600.

September 30–October 1 American Computer Mega Show. Shrine Auditorium, Los Angeles. American Mega Shows. Call: (818)961-3782.

October

October 1 Computer Marketplace. Sequoia Conference Center, Buena Park. National Productions. Call: 1-800-800-5600.

SEPTEMBER 30–OCTOBER 1

American Computer Mega Show

SHRINE AUDITORIUM, LOS ANGELES

American Mega Shows presents the American Computer Mega Show. There will be vendors at up to two hundred booths selling their latest products—the latest PC systems, notebooks, multimedia products, boards, laser printers, faxmodems, disk drives, books, accessories, and more—at up to 70% off retail prices. Also choose from a huge selection of games, business, and educational software. The show takes place at the Shrine Auditorium, 700W. 32nd St., across from USC, in LA from 10 am to 5 pm Saturday and Sunday. For more information call (818)961-3782.

OCTOBER 7–8

Los Angeles Computer Fair

FAIRPLEX EXPO CENTER, POMONA

Produced by National Productions, the Los Angeles Computer Fair covers more than 100,000 air-conditioned square feet at the Fairplex Expo Center in Pomona. Over four hundred exhibits and forty seminars with the latest technology and the lowest prices will be on hand for this show. Find complete multimedia systems, notebook computers, modems, CD-ROM drives, printers, scanners, thousands of software titles for kids of all ages, and lots more. Free prize giveaways every hour. On Sunday, Jeff Levy of KFI Radio's Computer Talk and Lisa Osborne of KKLA's Information Network will be broadcasting live from the fair. Open 10 am to 5 pm Saturday and Sunday, admission is $7 for exhibits only, $15 for unlimited seminars and exhibits. Call 1-800-800-5600.

CALL FOR PARTICIPATION

Technology And Persons With Disabilities Conference

The Center on Disabilities at CSU Northridge is accepting proposals for half-hour or forty-five-minute sessions at the Eleventh Annual Technology and Persons With Disabilities Conference March 19–23, 1996. This is a comprehensive, international conference on technology, where all ages, disabilities, and levels of education and training in this country and abroad are covered. Speakers are invited to share applications of hardware and software, adaptive devices, training programs, and results of research in any and all areas of technology and disability. There is a heavy consumer orientation (parents of and persons who are themselves disabled) to the conference, so papers of interest to/from these target groups are also encouraged. The deadline for submissions is October 15, 1995. For more information, contact Dr. Harry Murphy, Founder & Dir., Center on Disabilities, CSUN, 18111 Nordhoff St., Northridge, CA 91330-8340; (818)885-2578; ltm@csun.edu .

October 1 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 6–8 Online Expo '95. Los Angeles Convention Center. International Marketing Associates. Call: (310)285-8728 or *IMA95@aol.com* .

October 6–8 Space FrontierCon IV: Space—Fiction Or Frontier? Los Angeles. Space Frontier Foundation. Call: Charles Miller, (707)649-0225.

October 7 Computer Show And Sale. Holiday Inn Select, Bakersfield. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 7–8 Los Angeles Computer Fair. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

October 7–11 International Exhibition Of Computer And Applications For China. Shanghai, China. CATE, Inc. Call: (415)903-2288.

October 8 Computer Show And Sale. Fresno Holiday Inn. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 8 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: (714)852-9267.

October 9–11 1995 Connector And Interconnection Symposium And Trade Show. San Jose. International Institute of Connector and Interconnection Technology. Call: 1-800-85-IICIT.

October 9–12 Eighth Annual Microprocessor Forum. San Jose. MicroDesign Resources. Call: 1-800-770-4006.

October 14 Computer Marketplace. Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600.

October 14 Computer Super Shows. O.C. Fairgrounds, Costa Mesa. Super Show Productions. Call: (714)852-9267.

October 14–15 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

October 14–15 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 Computer Show And Sale. Antelope

- Over 400 Computer Exhibits!
- Hundreds of New Products!

Los Angeles COMPUTER FAIR

Computer Fair Highlights

Los Angeles Computer Fair truly offers something for everyone, with more than 400 booths and 100,000 square feet, all under one air-conditioned roof. This is an event that will help even the new user learn and get comfortable with computing. For the most experienced "techie", Los Angeles Computer Fair will provide a chance to touch and experiment with the latest technology.

Computer Learning Center

The Learning Center is a unique, hands-on instruction room stocked with computers and top software packages for kids of all ages. Located in the heart of the exhibit hall, try out the newest operating systems, games, edutainment, word processors, home finance software, graphics packages, desktop publishers, software for small businesses and multimedia. Instructors will be available for assistance.

A Departure Lounge to Cyberspace

Co-Sponsored By Earthlink Network Inc.

Let us take you on a journey through the Internet and World Wide Web. The Internet Pavilion will have instructors on site to guide you through cyberspace. Participants can learn how to access the Internet, surf the World Wide Web, and even e-mail the White House and congress. Everyone knows the Internet is cool!

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Computer Seminars

A major attraction is the extensive listing of seminars for both new and experienced users. We offer over 40 seminars on topics as diverse as "How To Buy A Computer" and "Setting Up Your Business on the Internet". For more information, see the outline of seminar topics.

All-Day Unlimited Seminar & Exhibit Pass—$15.00
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October 7-8, 1995
Fairplex Exposition Complex
Pomona, California

Educating New Users
While Strengthening Advanced Users

Live Radio Broadcasts

KFI Radio's "On Computers" with Jeff Levy will be broadcasting live Sunday from 9am-12noon, featuring live guests and plenty of listener call-ins.

"On Computers" with Gina Smith will broadcast live on Sunday from 10:00am-1:00pm. This #1 award winning, high tech radio talk show broadcasts on 65 stations nationwide with over 1 million listeners. Come by and say hi!

The Information Network is a one hour interactive radio show hosted by Lisa Osborne on KKLA-FM. Broadcasting live from the Computer Fair on Sunday at 4:00pm.

Prizes and Drawings

Every hour, drawings will be held for top software and hardware manufacturers. To be eligible to win, fill out the admission ticket. When you walk into the Computer Fair, your ticket will be automatically entered in the drawing. You need not be present to win, unclaimed prize winners will be notified by mail.

For a Complete Up-To-The-Minute Listing On All Seminars
Call 1-800-800-5600

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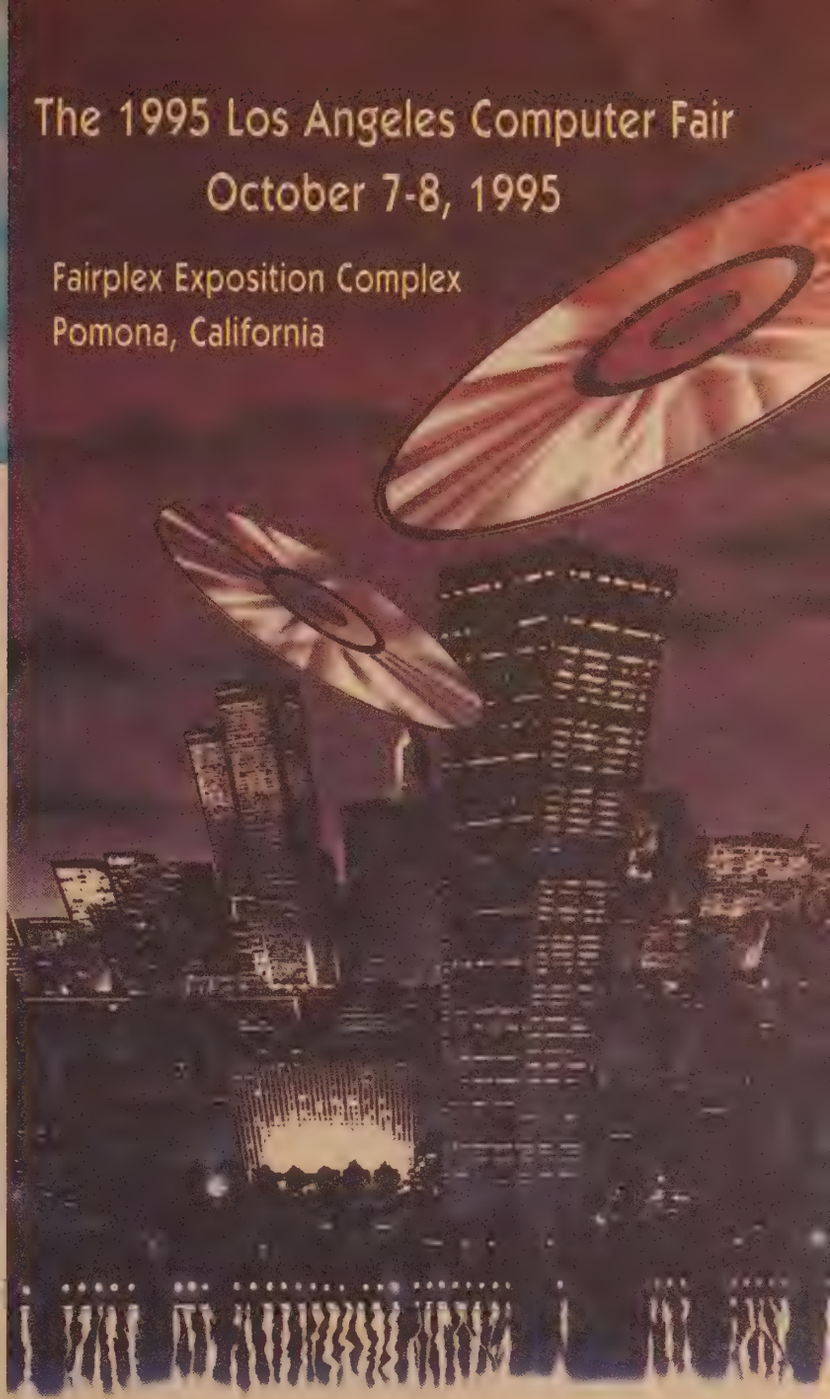
The 1995 Los Angeles Computer Fair

October 7-8, 1995

Fairplex Exposition Complex
Pomona, California



- The Best Computer Buys!
- Over 40 High Tech Seminars!

Seminar Listings

Saturday October 7, 1995

11:00am-12:00pm

Internet For Newbies	Visual Edge Productions
Introduction to HTML	Net 101
Mobile Messaging Strategies	Russ Chung Consulting
Buying Your 1st Computer	Power-Link Consulting

12:30-1:30pm

Successful Business Use Of The Internet	MultiMedia Magic
Buying A Modem & How to Use It	Jung & Associates
Telecommuting Strategies	Russ Chung Consulting
Introduction To Software	Power-Link Consulting

2:00-3:00pm

Windows 95	Visual Edge Productions
Downloading From Cyberspace	Jung & Associates
Profitable Computer Consulting	William Mooney Associates
Educational Multimedia Sampler	Flagtower Multimedia

3:30-4:30pm

OS/2 Warp	IBM Corporation
The Future of the Internet	Intel Corporation
Career Opportunities In The High Tech Industry	New Horizons Learning Ctr.
Computer Consulting Lifecycle	William Mooney Associates
Introduction to 3D Graphics & Animation	Visual Software

Sunday October 8, 1995

11:00am-12:00pm

Exploring Online Services & Web Sites	Visual Edge Productions
Alternatives In 5th Generation Processor Performance	Nexgen, Inc.
Creating Great Brochures	TBA
Automating Your Business Using Barcodes	BarCode Media
Computer Accounting Sys. For Small Business	New Horizons
How To Market Your Computer Consulting Business	William Mooney Associates
Learn To Use Your Computer	Thomas Lenzo Consulting

12:30-1:30pm

Successful Business Use of The Internet	MultiMedia Magic
OS/2 Warp	IBM Corporation
Making Your Own CD-ROM	Brownstein WordWorks
Save Big Money & Avoid Obsolesence Too	IMA Computer Consulting
Spreadsheets: They Mean Business	New Horizons Learning Ctr.

12:30-1:30pm cont.

Computer Consulting Lifecycle	William Mooney Associates
Interactive Voice & Fax On Demand	TouchVoice Corp.

2:00-3:00pm

Windows 95	Visual Edge Productions
Surfing The Net With OS/2	IBM Corporation
Advanced Intro to CorelDraw!5	Brownstein WordWorks
Information Hwy or Propaganda Toll Road?	IMA Computer Consulting
Newsletter I	TBA
And In This Corner... A CD-ROM	Power-Link Consulting
Creating Multimedia Floppy Discs For Promotion	MultiMedia Magic

3:30-4:30pm

How To Get Your Business On The WWW	Net 101
Newsletters II	TBA
Introduction To Software	Power-Link Consulting

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Admission
$7.00 One Day Pass-Exhibits Only
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$20.00 Two Day Pass-Unlimited Seminars & Exhibits

Dates Saturday & Sunday, October 7-8, 1995

Hours 10:00 AM to 5:00 PM

Location Fairplex Exposition Complex (L.A. County Fairgrounds) Building 4. Seminars at Sheraton Suites Fairplex.

Directions Exit Highway 10 at Fairplex Drive. Go north to McKinley and turn right. Then turn left on White Avenue to Gate 14. Los Angeles Computer Fair is located in Building 4 on the main Complex.

Bonanza Show Productions Presents the
Computer Show & Sale Expo
Sept. 23 CAL STATE NORTHRIDGE
Saturday 18000 Devonshire, Northridge
Oct. 21 CAL STATE NORTHRIDGE
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Nov. 4 CAL STATE NORTHRIDGE
Saturday 18000 Devonshire, Northridge
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From the San Diego Feeway (405) take the Devonshire exit West to Northridge continue onto 18000 Devonshire Blvd.
From the (118) Freeway take the Reseda exit South. Turn left on Devonshire Blvd.
FREE ADMISSION FREE ADMISSION
FREE ADMISSION FREE ADMISSION
FREE ADMISSION FREE ADMISSION
SHOW HOURS — 8AM TO 2PM

Resources

Calendar Of Events *continued...*

County Fairgrounds, Lancaster. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 Computer Show And Sale. California Center for the Arts, Escondido. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 15 NOCCC Computer Fair And Swap Meet. Anaheim Marketplace. North Orange County Computer Club. Call: (714)521-6915.

October 19–21 Third Annual Bionomics Conference. San Francisco. Bionomics Institute. Call: (415)454-1000 or *conf95@bionomics.org* or *http://www.bionomics.org* .

October 21 Computer Show And Sale. Del Mar Fairgrounds. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 21 Computer Show And Sale. Palm Springs/Indio, Riverside County Fair. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

October 21 Computer Super Shows. Glendale Civic Auditorium. Super Show Productions. Call: (714)852-9267.

October 21–22 American Computer Mega Show. Shrine Auditorium, Los Angeles. American Mega Shows. Call: (818)961-3782.

October 23–25 Illustrator Conference. La Jolla. Thunder Lizard Productions. Call: 1-800-221-3806.

October 24–28 Interactive Summit. Squaw Valley, CA. International Interactive Communications Society. Call: (818)798-5588 or *IICSSummit@aol.com* .

October 28–29 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

October 29 Computer Super Shows. Cal State Long Beach. Super Show Productions. Call: (714)852-9267.

October 30–November 1 Online '95 Conference And Expo. Chicago. *Online.* Call: Tasha Heinrichs, (203)761-1466 or *http://www.iquest.net/online/online95.html* .

October 30–November 2 Fall Internet World '95 Show. Boston. Mecklermedia. Call: (203)226-6967 or *info@mecklermedia.com* or *http://www.mecklerweb.com/* .

October 30–November 3 PNC—People, Networks, And Communication '95 Conference. Honolulu, Hawaii. International Community Interconnected Computing Exchange. Call: Gale Warshawsky, (510)820-6821 or *msgale@netcom.com* .

Classes, Seminars, Workshops

September

September 20–21 Intermediate Word 6.0 For Windows Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 20–21 Intro To QuickBooks Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 20–21 WordPerfect For Windows Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 22–24 3-D Tools Class. Los Angeles. American Film Institute. Call: (213)856-7690.

September 23 Digital Backlot: An Intro To Digital Image Creation For Film And Television Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

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Seminars & Presentations covering:
The Internet, Word 6.1, WordPerfect, Microsoft Excel, Home Accounting, Multi-Media, Lotus, Networking, How to Buy a New System and More.

Sept. 24 Sunday — **RIVERSIDE CONVENTION CENTER**
3443 ORANGE ST., RIVERSIDE
(CROSS STREETS ARE MARKET ST. AND 5TH STREET)

Oct. 8 Sunday — **RIVERSIDE CONVENTION CENTER**
3443 ORANGE ST., RIVERSIDE
(CROSS STREETS ARE MARKET ST. AND 5TH STREET)

Oct. 14 Saturday — **ORANGE COUNTY FAIRGROUNDS**
88 FAIR DR., COSTA MESA
(55 FRWY. EXIT DEL MAR DR. & RIGHT ONTO FAIR DR.)

Oct. 21, Saturday — **GLENDALE CIVIC AUDITORIUM**

Oct. 29, Sunday — **CAL STATE LONG BEACH**

Nov. 4, Saturday — **GLENDALE CIVIC AUDITORIUM**

SHOW HOURS:
10:00AM TO 5:00PM
VENDOR SETUP:
7:00AM TO 9:00AM

ADMISSION:
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DX2/66MHz.....$739
DX2/80MHz.....$759
DX4/100MHz.....$779

PENTIUM SYSTEM

90MHz.....$1169
100MHz.....$1189
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Includes 8MB Memory & Midtower

SYSTEMS INCLUDE:

◆ Green VLB M/B w/256K Cache ◆ 4MB Memory, 70ns ◆ 1.44MB Floppy Drive ◆ 540 HDD ◆ VLB EIDE 2 Serial/1 Parallel/1 Game Ports ◆ VLB SVGA Controller ◆ 14" SVGA N.I., .28dp ◆ 101 Enhanced Keyboard ◆ Mouse ◆ Mini Case w/ Digital Display, 230W P/S

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CD-ROM • Sound Blaster
12 CD Titles + Speaker
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SYSTEM UPGRADE

SYSTEM UPGRADE ANY 286 or 386 TO

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* 486DX2/66MHz VLB.....$169
* 486DX-80/DX4-100MHz VLB $179/$199
* PCI 90MHz.....$475
* PCI 100MHz.....$499

FREE LABOR

MONITORS
Super VGA 17",.28dpi ...$535
Super VGA 15",.28dpi ...$305
Super VGA 14",.28dpi ...$225

HARD DRIVES
540MB.....$159
850MB.....$199
1GIG.....$249

FAX/MODEM
14.4K V.32, V.42 Bit.....$49
14.4K w/Voice Mail.....$59

CASES + POWER SUPPLY
Mini Tower w/230 Watt.....$35
Mid Tower w/230 Watt.....$59
Full Tower w/250 Watt.....$79

FLOPPY DRIVES
1.2 FDD.....$39
1.44 FDD.....$29

ADD-ON CARDS
32 Bit VL-Bus IDE I/O.....$25
32 Bit VL-Bus SVGA Card.....$79
16 Bit IDE I/O.....$15
16 Bit SVGA Card.....$65

MEMORY SELL PRICE

30 PINS
1X8 (1MB).....$30
4X8 (4MB).....$115
1X9 (1MB).....$32
4X9 (4MB).....$125

72 PINS
4MB 32/36.....$129/$139
8MB 32/36.....$255/$275
16MB 32/36.....$465/$475
Prices subject to change w/out notice.

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NEW & USED
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SYSTEM REPAIR

We Will Solve Any Problem On Your System!
$40 + Parts
We install CD-ROMs, HARD DRIVES, FLOPPY DRIVES, SCANNERS, MEMORY & MORE!

MONITOR REPAIR

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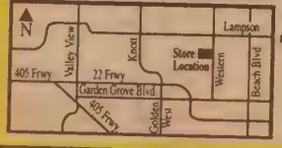

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Resources

Calendar Of Events *continued...*

September 23–December 9 3-D Graphics Programming Techniques: Modeling Class. Los Angeles. UCLA Extension. Call: (310)825-3857.

September 23–December 9 Compression Of Image, Voice, And Computer Data Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 25 Ins And Outs Of Digital Video Class. Los Angeles. American Film Institute. Call: (213)856-7690.

September 25–November 27 Wireless Data Networks Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 25–December 11 Building Client/Server Applications: A Hands-On Approach Using PowerBuilder, SQL Server, And Windows NT Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 25–December 11 Using Authorware Professional For Windows II: Authoring Solutions Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 26–27 3D Studio Introduction Class. Los Angeles. American Film Institute. Call: (213)856-7690.

September 26–December 5 Using The Avid Media Composer: Workshop For Editors. Burbank. UCLA Extension. Call: (310)825-9064.

September 26–December 12 Compression Of Image, Voice, And Computer Data Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 26–December 12 Fundamentals Of 3-D Studio: A Workshop. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 27–28 Intro To Microsoft Excel 5.0 Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 27–28 Intro To Windows 3.1x Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

September 27–October 25 Fundamentals Of 3-D Studio: A Workshop. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 27–November 15 Audio/Visual Production For Interactive Multimedia Games Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 27–December 13 Authoring Multimedia Applications Using Director Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 27–December 13 Building Client/Server Applications: A Hands-On Approach Using PowerBuilder, SQL Server, And Windows NT Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 27–December 13 Intro To Object-Oriented And GUI Programming With Delphi Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 27–December 13 Mastering The World Wide Web Class. Los Angeles. UCLA Extension. Call: (310)206-7252.

September 28 IBM OS/2 Warp Installation Free Workshop. Costa Mesa. Southern California OS/2 User Group. Call: (714)730-5221.

September 28 Microsoft Windows Class. Irvine. Computer Research Center. Call: (714)476-2333.

September 28–October 12 Intro To Internet Information Services Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 28–November 2 Overview Of The Internet Protocol Suite Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

September 28–November 30 Fundamentals Of Interactive Multimedia Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

September 28–December 7 Personal Communication Networks And

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Saturday
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Sunday
Nov 12, 1995

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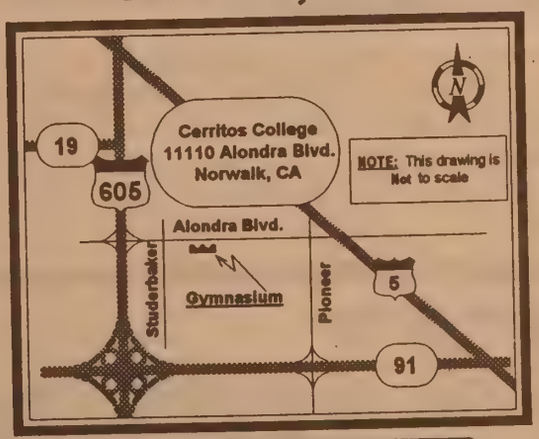
For Reservations & Info Call (310) 860 2451 Ext 2715



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2 intel inside pentium PROCESSOR

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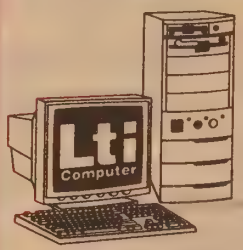

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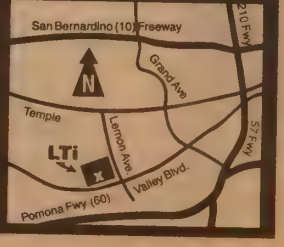

Resources

Calendar Of Events *continued...*

Services Class. Los Angeles. UCLA Extension. Call: (310)825-4100.
September 28–December 14 Intermediate 3-D Studio: Project Workshop. Los Angeles. UCLA Extension. Call: (310)825-9064.
September 29–October 14 Intro To Client/Server Computing Class. Los Angeles. UCLA Extension. Call: (310)825-4100.
September 30 PC Survival Guide Class. Chatsworth. Wizard of OsZ. Call: (818)709-6969.

October

October 1–26 Certified Novell Administrator Class. Irvine. Computer Research Center. Call: (714)476-2333.
October 2–3 Understanding Document Imaging Seminar. Irvine. Data-Tech. Call: (201)478-5400.
October 3 AutoCAD Workshop. Irvine. Computer Research Center. Call: (714)476-2333.
October 6–7 Electronic Data Interchange Implementation Class. Los Angeles. UCLA Extension. Call: (310)825-4100.
October 6–8 Intro To 3-D Modeling, Rendering, And Animation Using Visual Reality Class. Los Angeles. UCLA Extension. Call: (310)825-9064.
October 6–8 Special Delivery For Multimedia Class. Los Angeles. American Film Institute. Call: (213)856-7690.
October 7–8 2-D Imaging And Special Effects Using Elastic Reality Class. Santa Monica. UCLA Extension. Call: (310)825-9064.
October 7–15 2-D Paint And Imaging Techniques Using Parallax Matador Class. Santa Monica. UCLA Extension. Call: (310)825-9064.
October 9–11 Authoring From Mac To Windows Class. Los Angeles. American Film Institute. Call: (213)856-7690.
October 10–November 9 Intro To Creating Digital Effects: An Intensive Silicon Graphics Workshop. Santa Monica. UCLA Extension. Call: (310)825-9064.
October 11–13 Accelerated CNE-4 Training Seminar. Anaheim. Center for Advanced Professional Development. Call: (714)261-0240.
October 12 Microsoft Excel I Class. Irvine. Computer Research Center. Call: (714)476-2333.
October 13–14 Advanced EDI Architecture Workshop. Los Angeles. UCLA Extension. Call: (310)825-4100.
October 13–15 Electric Image Class. Los Angeles. American Film Institute. Call: (213)856-7690.
October 13–21 Networking With Microsoft Software Class. Los Angeles. UCLA Extension. Call: (310)825-4100.
October 14 Beginning Director Part 1 Seminar. Santa Monica. LAMG. Call: (310)319-1821.
October 14 Designing Your World Wide Web Site On The Internet Class. Los Angeles. UCLA Extension. Call: (310)206-1422.
October 14 Intro To Multimedia Seminar. Santa Monica. LAMG. Call: (310)319-1821.
October 14 Power Home Office Seminar. Santa Monica. LAMG. Call: (310)319-1821.
October 16 Ins And Outs Of Digital Video Class. Los Angeles. American Film Institute. Call: (213)856-7690.
October 16–18 Hot Metal: Using HTML Class. Los Angeles. American Film Institute. Call: (213)856-7690.

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Oct 14-15 Sat & Sun 10 - 5PM Double Header - call to confirm — Cal State Northridge 18111 Nordhoff Street (INDOOR SHOW at Student Union); National Orange Show (SB) 689 South "E" Street, San Bernardino
Tentative Please Call Oct 21-22 Sat & Sun 10 - 5PM — Shrine Auditorium
Nov 4-5 Sat & Sun 10 - 5PM — Cal State Northridge 18111 Nordhoff Street (INDOOR SHOW at Student Union)
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4Next GT BBS. (213)343-0935, 223-6293; (310)531-0664, 839-4139; (714)956-4698, 649-2719, 956-8127 (@28,800), 831-9043; (818)330-7151, 503-4510. 8-N-1, 24 hrs., 14,400 and 28,800. 100+ lines. Chat, games, files, Internet, user events, all ages. Sysop: Chris Eden. [Exp. #143.]

A-Men On-Line. (213)651-0507, (310)366-1769, (818)785-1679. 8-N-1, 24 hrs., West Hollywood's hottest party and gym boy board. Gay/bi/curious. Fee. Sysop: John Whyman. [Exp. #141.]

Annex Online. (213)293-0700, (310)788-3818, (818)779-5600, telnet: 204.74.67.1 . 140 lines. Multiline chat, full Internet/SLIP, user meets, more. Sysop: Greg Gooden. [Exp. #141.]

Aussie BBS. (310)425-5710, 320-5000; (714)670-6500, 572-8800, 537-4300, 262-1200; (818)961-1700, 447-6100, 357-5005, 797-6400. 25 lines. TradeWars, MUDs, chat, files, Internet, FidoNet. Free trial. Sysop: Mike Szabados. [Exp. #143.]

Beyond Chat BBS. (310)402-5869; (714)572-1993, 526-2344, 539-1849. 24 hrs., 14,400. 8 lines. Fun-loving, friendly, fast-growing, exciting, new adult board! [Exp. #141.]

The Crusader BBS. (213)466-4482, (310)348-9746. 14,400. Multiline. 12 CD-ROMs, Internet email, Usenet, chat, games, FidoNet, files. Sysop: Jack Farmer. [Exp. #143.]

DigitalPopcorn. (213)462-5919; (818)398-3303, 843-7919, 988-4750. 24 hrs. except backups T, Th, Sat 2–5am. DigitalPopcorn is a Pasadena BBS with newsgroups, OneNet, and local conferences. Fee. [Exp. #142.]

Eden—The Electronic Garden. (310)421-2420; (714)548-1900, 530-6335, telnet:edenbbs.com . 24 hrs., 14,400. 52 lines. Adults-only "playground," full Internet access, WorldGroup for Windows. Sysop: Daniel Vesely. [Exp. #143.]

Hell's Door BBS. (310)429-7070, 903-5512, 943-4729; (714)891-6083. 8-N-1, 24 hrs., up to 28,800. Eight nodes. 70,000+ files, games, multinode chat, large adult section. Free. [Exp. #143.]

Hotel California. (310)407-1300, (714)437-1492, telnet: kincyb.com . 24 hrs., 14,400–28,800. Full Internet! Games, adult GIFs, chat, forums. Low fee/no time limits. [Exp. #141.]

ITOnline. (818)240-2180, 1-800-256-4662. 8-N-1, 24 hrs., 28,800. New nationwide adult online service, over 18,000 new files. Free access! [Exp. #143.]

LA Free-Net. (213)223-6511, 764-3022; (818)776-5000. 8-N-1, 24 hrs., up to 14,400. 70 lines. Local boards, email, WWW, gopher, and more. $15/year. [Exp. #142.]

LA Online. (213)936-1160; (310)372-4050, 445-0663; (818)577-2131; voice (310)372-9364. 8-N-1, 1200–14,400. World/national newswire, local news, calendar, movie times, classifieds. Always free. [Exp. #143.]

Mr. Wonderful's Lair. (213)261-8055, (818)451-0874. 24 hrs., up to 28,800. Internet, echo mail, games, shareware, adult, 12 CDs. Free 14-day account. Sysop: Mr. Wonderful. [Exp. #143 .]

The Online Connection. (213)957-5040, (310)659-5311. 8-N-1, 24 hrs., 28,800. TBBS, 32 multiline adult chat games, GIFs, public boards, more. [Exp. #142.]

Prism BBS. (310)799-0380; (714)454-9242, 638-7249, 642-6256. 8-N-1, 24 hrs., 300–28,800. 32 lines. 4.5GB, Internet, MajorNet, TradeWars 2002, adult areas, social events. Instant access. [Exp. #143.]

Star Tech BBS. (714)257-1175, (909)396-4BBS. 8-N-1, 24 hrs., 28,800. Internet email, newsgroups, FidoNet, CD-ROM, L.O.R.D., BRE Free trial/fee. Sysop: David Unfried. [Exp. #143.]

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213

The Career Network BBS. (213)933-4999. 8-N-1, 24 hrs., 2400–14,400. Hundreds of JOBS! throughout the US; your resume can reach 3000+ employers annually. Sysop: Steven McCormick. [Exp. #143.]

The Data Depot BBS. (213)665-5922. 24 hrs., Multiple lines. 50,000 files, games, computer store, full Internet, more. Free trial. [Exp. #143.]

Game Port BBS. (213)269-9793. Hardcore videos: Japanese, Chinese, amateur, new releases. VISA/MC. [Exp. #141.]

Korea Online. (213)427-2500. 24 hrs., up to 14,400. Eight lines. Korean files, forums, dating, chat. Free trial. [Exp. #142.]

SoulPartners' Computer Online Date. (213)223-3440. 8-N-1, 24 hrs., up to 14,400. Free online date, for friendship and romance,18 and over. Free/fee. Sysop: Maggie Lok. [Exp. #143.]

Summa Nulla BBS. (213)957-2562. 8-N-1, 24 hrs., 2400–28,800. Doors, files, Internet email, adult. Specializing in PC support. Free/fee. Sysop: Martin Blackwell. [Exp. #142.]

310

The Bizopps Connection. (310)677-7034. 8-N-1, 24 hrs., up to 14,400. Provides listings of business and franchise opportunities; online databases; and more. Sysop: Lawrence C. Toliver. [Exp. #141.]

ChAoS Online. (310)318-5089. 24 hrs., up to 14,400. Windows files, adult GIFs, six CDs, games, chat, messages. Free/fee. [Exp. #143.]

CircusMaximus OS/2 BBS. (310)782-7580. 23 hrs., 28,800 and ISDN. Internet access available, OS/2 and DOS file areas, echomail, more. [Exp. #142.]

CyberKorea BBS. (310)926-1899, telnet/ftp/www: 165.113.175.2 . Worldwide chat with fellow cyberkoreans, forums, Korean files and info, Internet connection. [Exp. #143.]

Health Info Online. (310)831-6775, 732-1830 (ISDN). 8-N-1, 24 hrs., 1200–115,000 (ISDN). For healthcare professionals, caregivers, patients, people interested in health; files, more. Free/fee. Sysops: Tom and Susan Dorsey. [Exp. #143.]

The Jungle. (310)494-0909. 8-N-1, 24 hrs., 14,400. Files, games, chat, messages, six CD-ROMs, adult sections. Free access. Sysop: Cobra. [Exp. #143.]

Los Angeles Macintosh Group BBS. (310)559-6227. 8-N-1, 24 hrs. Latest files; upgrades; forums on DTP, multimedia and video, employment; more. [Exp. #142.]

Mac-Hac'ers BBS. (310)549-9640 with rollover. 8-N-1, 24 hrs., 1200–28,800. 14 CD-ROMs, OneNet and Internet with satellite feed for immediate updates. Sysop: Bud Grove. [Exp. #143.]

Manhattan Online. (310)374-9994. 28,800. Four lines. Windows, DOS, and OS/2 shareware. FidoNet, Internet shell accounts. Free. Sysop: Paul Swanno. [Exp. #141.]

Mommadillo's BBS And Breakfast. (310)432-2423. 24 hrs., V.32bis. WWIVNet subs and email. Registered TradeWars v2 and LORD 3.26. Downloads. Free. [Exp. #143.]

One World. (310)372-0987. Ecology, gardening, health, alternative news. Free. [Exp. #143.]

Original Apple Corps BBS. (310)454-4660. Apple II support. Sysop: Ed Molina. [Exp. #143.]

Servant Christian BBS. (310)371-2770, 371-3130, 371-0251. 14,400. A modem ministry for Mac and Windows. First Class. Administrator: Doug Wade. [Exp. #141.]

South Bay Apple Mac User Group BBS. (310)792-8083, 792-0264. 14,400. First-Class. Administrator: Dr. Dave. [Exp. #141.]

Southern California Computer Society. (310)926-6778. 8-N-1, 24 hrs., 14,400. New users welcome. Conversation, files. Seal Beach/Long Beach. $15/year. [Exp. #143.]

The Spider's Web BBS. (310)416-9901. Wiccan, neopagan, alternative spirituality; recovery; BikeNet; SF, Trek, science; more. Free access. [Exp. #143.]

The Tower BBS. (310)698-3006. 24 hrs., 300–14,400. Christian fellowship, CD-ROM files, L.O.R.D., TradeWars, Doors, games, instant verification. Sysop: Raymond Shih. [Exp. #142 .]

Upper Transylvania BBS. (310)515-6843, 515-6953, 515-1757. 24 hrs., 1200–33,600. Christian and free. 20 CDs. Hub for Agape Family Net. Sysop: Ron Hoffman. [Exp. #142.]

Wah-Fah? BBS? (310)694-3557, 694-0577. 8-N-1, 24 hrs., 300–28,800. LORD, four CD-ROMs, general and adult file/message/door areas. Free! Sysops: Andy Garcelon, Tim Young. [Exp. #143.]

Why Not BBS. (310)436-1311. 8-N-1, 24 hrs., 2400–33,600. Five lines. 12 CDs, files, Internet email, newsgroups, adult, games, chat. Free/fee. Sysop: David A. Scott. [Exp. #143.]

XchangeNet. (310)452-3374. 8-N-1, 300–9600. All classified ads, all free, swapmeet of everything this side of Luna. Sysop: Rex Brains. [Exp. #141.]

714

3 Systems In ONE. (714)776-3001, 969-9624.

BULLETIN BOARDS cont.

8-N-1, 24 hrs., 2400–57,600. 14 lines. RIP/ANSI, chat, MajorNet forums, email, multiplayer games. Free trial. Sysop: Doug Campbell. [Exp. #141.]

Business And Design Forum. (714)952-1164. 8-N-1, 24 hrs., 28,800. Architects, builders, specifiers, interior design, graphics, commercial, industrial, residential; more. Free. [Exp. #143.]

CompuRef, The SoCal Excursion. (714)855-2733. 8-N-1, 24 hrs., 14,400. Social BBS: featuring social events, public discussions, email, matchmaking, chat. Free. [Exp. #141.]

Eclectic Triage BBS. (714)821-3258. 14,400. Several nets, widely diverse interests including Anime, Mods. Free. [Exp. #141.]

Generation X BBS. (714)361-8521. 24 hrs., Excalibur Windows BBS, 12 CDs, games, chat, email, adult. Free/fee. Sysop: Dave Edmondson. [Exp. #142.]

Happy Trails BBS. (714)547-0719. 24 hrs., 28,800. Seven lines. FidoNet, Internet, UChat, QSO, 2GB downloads. Free trial. Sysop: Don Inglehart. [Exp. #141.]

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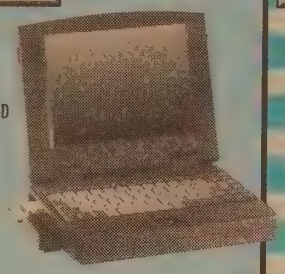

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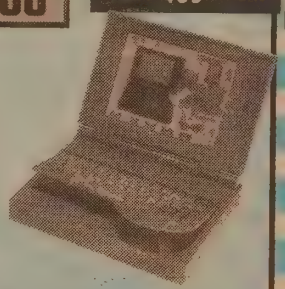

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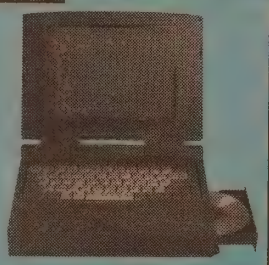

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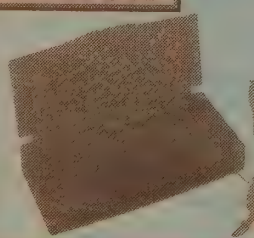

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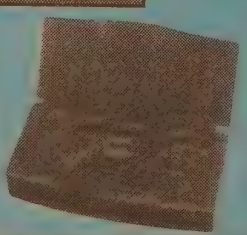

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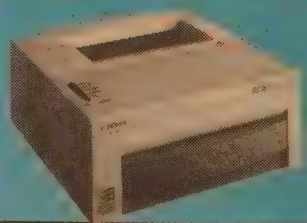

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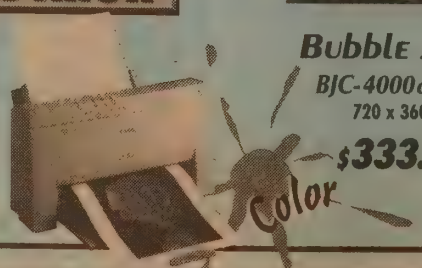

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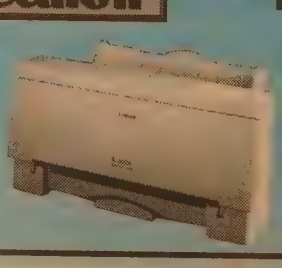

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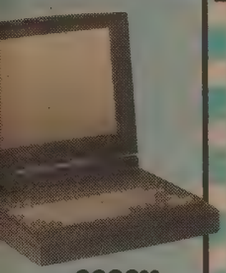

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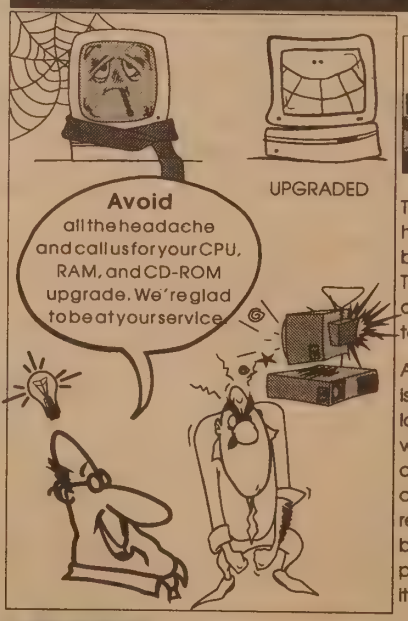

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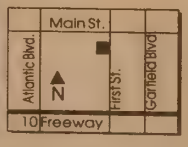

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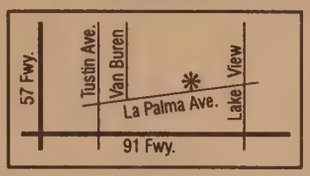

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909

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continued on page 235

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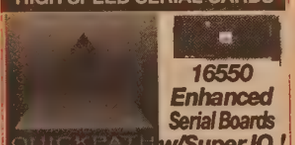

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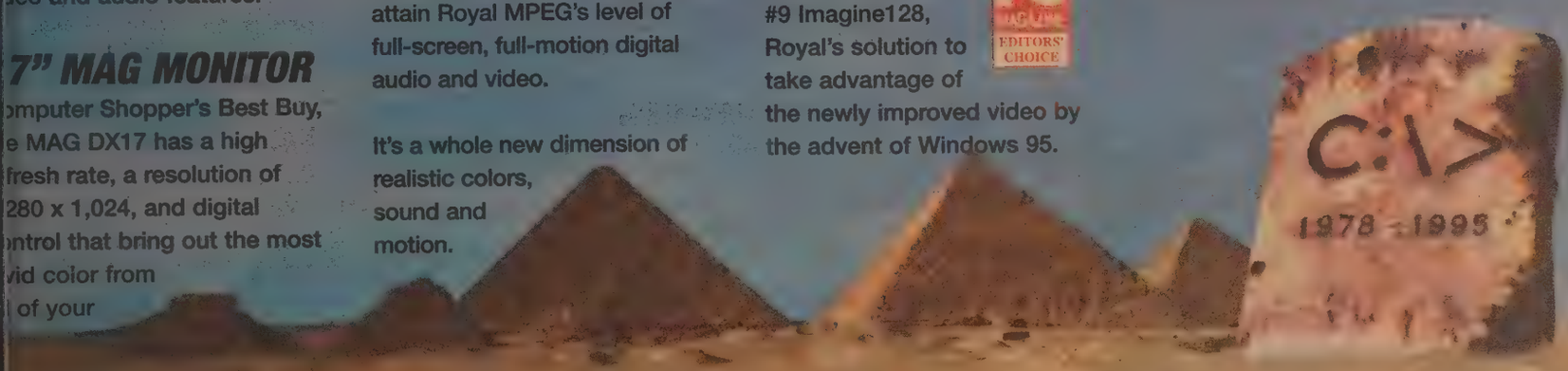

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Enhance 101 Keyboard & Hi Resolution Mouse

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$2939 Pentium 120
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** Please call for pricing on GSI. Promise. Bus Logic. Boca. DTC. Ultrastor. Future Domain. Always. Tekram and Q Logic controllers.*

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Maxtor MX-7850A - 850mb IDE	$199.00
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Quantum 540mb SCSI	$185.00
Quantum 730mb IDE	$199.00
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Quantum 2GB SCSI	$769.00
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Segate 31230N - 1.05GB SCSI	$549.00
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Western Digital AC2850 - 850mb IDE	$205.00
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** Please call for pricing on Digital (DEC). Micropolis, Minn-Stor, and any other unlisted models.*

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PAC C-21 Mini Tower w/230W PS	$43.00
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PAC C-41 Full Tower w/250W PS	$75.00
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PAC A-31 Mid Tower w/230W PS	$52.00
PAC A-41 Full Tower w/250W PS	$69.00
Diamond CS-130 Full Tower w/250W UL PS	$135.00
Diamond CS-230 Mid Tower w/250W UL PS	$95.00
Diamond CS-330 Mini Tower w/220W UL PS	$69.00
Diamond CS-730 Desktop w/220W UL PS	$71.00

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ATI mach64 PCI or VLB 2MB (V)	$169.00
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Diamond Stealth64 video PCI or VLB 2MB (V)	$259.00
Diamond Stealth64 PCI or VLB 2MB (D)	$165.00
Diamond Stealth64 PCI or VLB 1MB (D)	$125.00
Diamond Stealth64 SE PCI 1MB (D)	$89.00
Diamond Stealth64 SE VLB 1MB (D)	$94.00
Cirrus Logic 5428 VLB 1MB	$65.00
Cirrus Logic 5434 PCI 1MB	$89.00
S3 805 VLB 1MB	$68.00
S3 864 PCI 1MB	$92.00
Trident 9440 VLB 1MB	$65.00
Trident 9440 PCI 1MB	$68.00
Trident 8900 ISA 1MB	$59.00
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** Video Cards from Hercules, Matrox, Number 9, Orchid, Paradise, & STB available upon request*
** (D) = DRAM (V) = VRAM*

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CTX 1451ES 14" SVGA-NI	$229.00
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Focus 2001 w/hard dust cover	$29.00
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Focus 9000 (programable calculator)	$43.00
Fujitsu 4720 (click)	$36.00
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Creative Labs Digital School House 16 kit	$209.00
Creative Labs Home 4x CD kit with 16 titles	$379.00
Creative Labs Value CD 2x 16 kit	$185.00
Creative Labs Multimedia Office kit	$515.00
Acer 2x internal IDE	$59.00
Acer 4x internal IDE	$149.00
NEC 511 4x internal SCSI	$279.00
NEC Omni 4x internal SCSI w/CD titles	$225.00
NEC 512 6x internal SCSI	$389.00
NEC 6x External SCSI	$485.00
Panasonic 562B internal 2x	$69.00
Panasonic 572 internal 2x IDE	$79.00
Panasonic 503 2x internal SCSI	$59.00
Plextor 6x internal SCSI OEM	$499.00
Toshiba 3502 4x internal IDE	$179.00
Toshiba 5301 4x internal SCSI	$269.00
Toshiba 3601 4.4x internal SCSI	$289.00
Teac 55A 4x internal IDE	$159.00
4 CD titles	$12.00
14 CD titles	$37.00
16 CD titles	$42.00
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** Please call for pricing on Texel, Philip, Pioneer. and any other unlisted models.*

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Creative Labs S-B Basic	$69.00
Creative Labs Value Edition	$86.00
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Creative Labs 16 Vibra IDE OEM	$72.00
Creative Labs 16 MCD ASP	$158.00
Creative Labs 16 MCD ASP OEM	$95.00
Creative Labs SCSI-2	$149.00
Creative Labs SCSI-2 OEM	$109.00
Creative Labs SCSI-2 ASP	$195.00
Creative Labs Awe 32 Value Edition	$189.00
Creative Labs Awe 32 ASP and wave MCD	$255.00
Winstorm 16 SCSI	$75.00
DC 691 25W Speakers	$25.00
AT-95 160W Speakers	$40.00
SSR 170W Speakers	$45.00

** Please call for prices on ATI, Cardinal, Diamond. Logitech. Roland. Orchid. Turtle Beach sound products.*

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LT 14.4 internal data/fax	$47.00
LT 28.8 internal data/fax v.34	$149.00
Smartone 9600/2400 internal data/fax	$29.00
Smartone 14.4 internal data/fax	$58.00
Smartlink 9600/2400 internal data/fax	$32.00
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Smartlink 14.4 internal data/fax/voice	$65.00
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Smartlink 28.8 external data/fax v.34	$179.00
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** Please call for prices on Boca. Hayes. Supra. and Zoom modems.*

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Colorado DJ-50 internal 1400mb w/FC-20 Controller	$285.00
Colorado JT-20 external 250 parallel	$253.00
Colorado JT-30 external 350 parallel	$275.00
Colorado JT-35 external 700 parallel	$357.00
Colorado AB-11 external adapter kit	$38.00
Colorado KE-09 external drive kit	$75.00
Colorado FC-10 500kb/s - 1mb/s adapter kit	$80.00
Colorado 1GB and 2GB internal and external	CALL
Conner Tapestor 250 internal	$132.00
Conner Tapestor 420 internal	$148.00
Conner Tapestor 850 internal	$257.00

** Please call for prices on BDEc. Etabyte, I-Omega, Summite, Tecmar. and Wangtek tape backup systems.*

MICE/TRACKBALLS

Qtronix 3 button serial mouse	$8.00
A-4 Tech serial mouse	$9.00
A-4 Tech serial trackball	$24.00
A-4 joystick	$17.00
Logitech Bus Mouseman	$62.00
Logitech PS-2/serial Mouseman	$43.00
Logitech PS-2/serial Trackman	$69.00
Logitech Cyberman 30	$42.00
Logitech cordless mouse	$85.00
Microsoft serial mouse (OEM)	$24.00
Microsoft bus mouse	$52.00
Microsoft ballpoint trackball	$49.00

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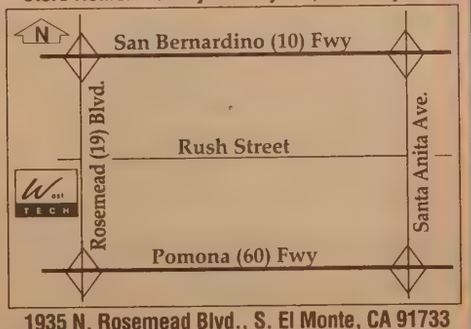

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VESA 486DX2-66MHz M/B w/256K & CPU	189	2X/4X Speed CD, 16-Sound	189/269
386DX-40MHz	95	25W Speakers, 102 Titles & Software	
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ALTIMA:				
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LSX	205	379		
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AMBRA:				
NC 425SL	195	349		
N100	195	379	629	CALL
SN SERIES	195		629	
APPLE:				
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POWERBOOK 140, 145B, 170, 180, 160, 165, 180C, 165C	175	299	349	
AST:				
ASENTIA 800/810	195	379	629	
ASENTIA 900N/910N	195	379	629	
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NOTEJET 486 (BN22)	195	379		
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INNOVABOOK 150C	195		629	
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Resources

USER GROUPS

continued from page 226

AMIGA

Amiga Users Group Of Long Beach. Meetings: 1st Thurs., 7:00 pm, Fire Station Bldg., 5373 E. Second St., Belmont Shores. All persons with an interest in the Amiga computer welcome. Free. [Exp. #146.]

APPLE

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #146.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users, various SIGs. Call: (714)770-1865, or S.W. Hosey, (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac users group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #146.]

ATARI

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

ATESIG—Atari 8-Bit SIG. Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Call: (310)430-5433. [Exp. #145.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, McDonald's restaurant, 1712 W. Pacific Coast Hwy., Harbor City. Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Call: Danny or Mary, (310)834-4052. [Exp. #146.]

COMMODORE

CHLB—Commodore Helpers of Long Beach. Meetings: 2nd Sat., 9:00 am., Community Presbyterian Church, 6380 Orange Ave., Long Beach. Newsletter, large library, monthly disks. Call: Herb, (310)429-8998. [Exp. #143.]

Orange County Commodore Club. Meetings: 4th Sat., 11:00 am, Costa Mesa Public Library, 1855 Park Ave., Costa Mesa. Call: Mike Moore, (714)668-9715. [Exp. #144.]

San Fernando Valley Commodore 64/128 Users Group. Meetings: 1st Tues., 7:00 pm, Balboa Park Recreation Center, Rm. 2, Balboa and Burbank blvds., Encino. Call: Paul Kroll, (818)892-3859. [Exp. #142.]

South Bay Commodore Users Group. Meetings: 3rd Thurs, 7:00 pm, So. Cal. Edison Generating Station, 1100 Harbor Dr. (across from King Yacht Harbor), Redondo Beach. Call: Dorothy, (310)323-9265. [Exp. #143.]

FRAMEMAKER

Orange County FrameMaker Users Network (OCFUN). Meetings: 3rd Thurs., 6:00 pm, LearnSoft, 4590 MacArthur Blvd., Suite 350, Irvine. Call: Marge Packman, (714)798-1230 or *mpackman@cisco.com* [Exp. #145.]

IBM AND COMPATIBLES

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

Channel Islands PC User Group. Meetings: 1st Sat., 9:30 am, Freedom Center, 515 Eubanks St., Camarillo (at Camarillo airport). Covers DOS, Windows, OS/2. Visitors welcome, no charge, PO Box 5025, Oxnard, CA 93031. Email: *dviolini@rain.org* . [Exp. #144.]

Greater South Bay PC Users Group. Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center, behind Torrance main library. Call: (310)335-2799. [Exp. #144.]

Long Beach IBM PC And Compatibles Users Group. Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Call: Jim Wells, (310)439-7114. [Exp. #146.]

Los Angeles Computer Society. Meetings: 2nd Tues., 7:00 pm, Robert Frost Auditorium, Culver City High School, 4401 Elenda St., Culver City. Vendor presentations, free software, special interest groups, BBS. Call: (310)471-2726. [Exp. #143.]

Microsoft Foundation Classes User's Group. Meetings: 2nd and 4th Tues., 6:30 pm, 201 W. Hilliard Ave., Monterey Park. Call: Fook H. Eng, (818)572-9220. [Exp. #144.]

Orange Coast IBM PC User Group. 1520 Brookhollow, Suite 38, Santa Ana. Speakers, BBS, software library, newsletter, and SIGs. Everyone welcome. Call: (714)662-2939. [Exp. #143.]

Orange County IBM PC Users Group. Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Call: (714)990-0580. [Exp. #146.]

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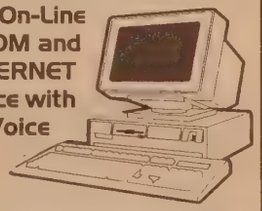

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Resources

USER GROUPS cont...

Pasadena IBM Users Group. Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #141.]

San Bernardino Personal Computer User Group. Meetings: 1st Wed., 6:30 pm, CSU, Jack Brown Bldg., Rm. 285, San Bernardino. All PC users are welcome to come share information and ideas. Call: Mary Kehew, (909)882-3653 or Dan Sheffield, (909)797-9112. [Exp. #141.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, McDonald's restaurant, 1712 W. Pacific Coast Hwy., Harbor City. Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Call: Danny or Mary, (310)834-4052. [Exp. #146.]

Southern California Computer Society. Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, Community Room,12535 Seal Beach Blvd., Seal Beach. We welcome all who are interested in IBM and compatible computers; BBS and newsletter. $15/yr. Call: Jim Perry, (310)429-3060. [Exp. #146.]

Thousand Oaks Personal Computer Club (TOPCC). Meetings: 4th Thurs., 6:30 pm, Goebel Senior Center, 1385 E. Janss Rd., Thousand Oaks. Programs are targeted at novice to expert levels of computer knowledge. Call: (805)495-8325. [Exp. #146.]

Tug-Net. Meetings: 1st four Thurs., 7:00 pm, Glendale Federal Bank, 7119 Topanga Canyon Blvd., Canoga Park. Visitors free. Ample parking. Call: (818)249-1629 or 884-9441. [Exp. #145.]

Valley Computer Club. Meetings: 1st Wed., 7:00 pm, Burbank Board of Realtors Bldg., rear entrance, 2006 W. Magnolia, Burbank. BBS, PD library, SIGs, newsletter. All welcome. Call: Estella McClintock, (818)848-1948; or Grayce Hruda, (818)842-3707. [Exp. #145.]

Valley IBM Compatible Users Group (VICUG). Meetings: 3rd Fri., 7:00 pm, State Bldg., 6150 Van Nuys Blvd., Van Nuys. Call: Harry Tischler, (818)997-1470. [Exp. #144.]

KAYPRO

KAYOS Kaypro User Group. Meetings: 4th Tues. of even months, 6:00 pm, El Segundo Library, Mariposa and Richmond streets. Call: (310)379-8339. [Exp. #146.]

MACINTOSH

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)265-9357. [Exp. #144.]

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #146.]

Long Beach Chapter Of LAMG. Meetings: 1st Tues. (but Sept. 12 and Oct. 10), 6:00 pm, Signal Hill Elementary School Auditorium, 2285 Walnut, Signal Hill. Presentations, Q&A, diverse group of new and experienced Macintosh users. Call: Roger Kroll, (310)433-9818. [Exp. #146.]

Los Angeles Macintosh Group (LAMG). Meetings: 3rd Thurs., 7:30 pm, Santa Monica High School's Barnum Hall, 601 Pico Blvd., Santa Monica. Vendor presentations, 25+ SIGs, seminars, BBS, monthly magazine. Guests welcome. Call: (310)319-1821. [Exp. #145.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users. Various SIGs. Call: (714)770-1865 or S.W. Hosey (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #145.]

QMUG/LA, The Lesbian, Gay, Bisexual Macintosh User's Group. Meetings: 2nd Mon., 7:30 pm, Los Angeles Gay and Lesbian Community Services Center, 1625 N. Schrader Blvd., Los Angeles. Social, business, and technical network for lesbian, gay, and bisexual Mac users. Call: (213)222-7684 or *QMUG-LA@pop.com* [Exp. #144.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, McDonald's restaurant, 1712 W. Pacific Coast Hwy., Harbor City. Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Call: Danny or Mary, (310)834-4052. [Exp. #146.]

South Bay Apple Mac User Group. Meetings: Last Wed., 8:00 pm, Knob Hill Community Center, 320 Knob Hill, Redondo Beach. Newsletter, PD library, demos, and raffles. Call: (310)644-3315. [Exp. #144.]

NETWORKING

Los Angeles NetWare Users Group (LANet). Meetings: 4th Tues., 6:30 pm, Novell, 11300 W. Olympic Blvd. at Sawtelle, 9th Floor, West LA. Vendor presentations and open forum. Call: LANet, 1-800-60-LANET. [Exp. #144.]

OCNET—Orange County NetWare Users Group. Meetings: 2nd Tues. 6:30 pm and 4th Tues. 11:00 am, Novell, 18101 Von Karman, Suite 500, Irvine. Specializes in Novell NetWare solutions. Call: 1-800-532-7268. [Exp. #143.]

PARADOX

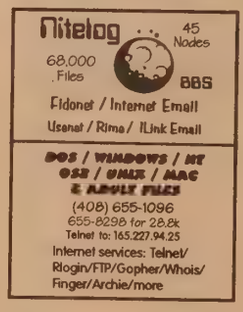
Orange Co. Chapter, LA Paradox User's Group (LAPALs). Meetings: 3rd Wed., 7:00 pm, Newport Beach Fire Dept., 475 32nd St., Newport Beach. Presentations, Q&A, etc. for Paradox (DOS/Windows) users and developers. Call: Glenn Jones, (310)490-2092. [Exp. #145.]

UNIX

UUASC, The UNIX User's Association Of Southern California. Meetings: 2nd Mon., 7:00 pm. For all people using all flavors of UNIX; presentations, discussions. Call: Larry, (714)526-4347. [Exp. #142.]

WINDOWS

WINNERS—WINdows usERS. Meetings: 2nd Sat., 9:00 am, Orange Coast College Chemistry #214, 2701 Fairview, Costa Mesa. Great speakers, help for Windows and Windows applications. Beginners, experts welcomed. Call: (714)542-0468. [Exp. #143.]



ASSOCIATIONS

Society For Technical Communication, Orange County Chapter. A nonprofit organization dedicated to providing educational programs and networking opportunities in technical communication. Call: (714)863-7666. [Exp. #142.]

Software Council Of Southern California. Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriott, main ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association whose membership is comprised of software development organizations, as well as companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #144.]

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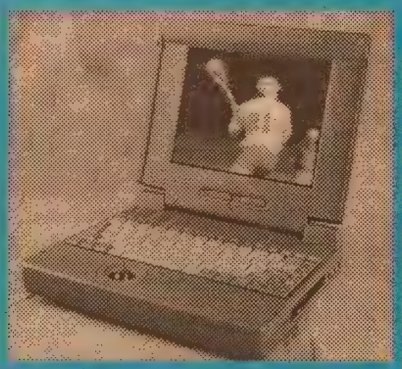

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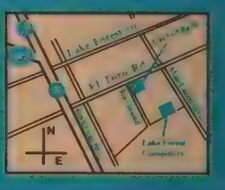

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MUTILAUDIO *continued from page 180*

of a multitude of announcers repeating Elvis' name, and stitched it all together to create an audio patchwork crazy quilt. The final product leaves the listener torn between delighted astonishment and the intense desire to have a shot, a toke, and a tranquilizer.

DESKTOP DIGITAL RECORDING

Gans uses the Desktop Digital Studio, what he describes as a "modest version" of desktop digital audio sound-editing equipment. He got his current setup in 1993 from the Novato-based Sonic Solutions, which specializes in creating customized, state-of-the-art, digital audio editing hardware and software for sound technicians. Sound tracks for films ranging from *Hoop Dreams* to *The Lion King* were honed using Sonic systems. CBS uses Sonic's digital audio workstation to smooth the audio from the O.J. Simpson trial. More than half of 1995's Grammy-nominated songs had the magic wand of Sonic Solutions waved over them. Though Sonic Solutions creates only Macintosh-compatible products and will soon be delivering a system for SGI machines, there are other companies that create similar equipment for DOS and Windows users, according to Gans.

He has a Quadra 950 with 40MB of RAM. The Quadra houses a 240MB hard drive where all his programs are stored. His sound files are kept separately on three other hard drives, which have a total of 6GB of storage. He needs that much storage, too. A one-minute sound file can be as large as 20MB, and Gans might have multiple projects containing several hours' worth of recorded files he's working on at any given time. With sound files as large as they are, a certain amount of instability would seem inevitable, but Gans says his system has never crashed, and that "out of memory" messages are extremely rare.

A digital tape recorder allows him to put sounds onto digital audio tape (DAT), either by recording directly through a microphone or by plugging the DAT recorder into a sound source such as a CD player or radio. However, he can feed sounds from CD, DAT, or any other analog or digital source into his computer, which turns them into audio files that display on-screen, visual representations of the material he wants to manipulate. With stereo speakers strategically placed on either side of the monitor, Gans can simultaneously hear and see the sounds as he plays them back.

Once he is finished with a project, he can write the final output to either tape or CD. "I prepare all the music for my KPFA show on CD and take it to the station," he says, adding that he also uses CD for archiving. He prefers the stability of CD over DAT, and says that even though he appreciates the high sound quality DAT can deliver: "It is a fragile medium and sometimes they [the tapes] don't work. When they don't work, they don't work really, really badly."

DIGITAL VS. ANALOG

Gans's foray into sound manipulation didn't start digitally. He's been playing audio slice-and-dice for over a decade.

"I started doing montages as soon as I started doing radio. I always liked to mix in little bits of dialog from movies and short bits from songs. It's a fun, creative way to use the medium. I did it on magnetic tape, the old fashioned way. Then, when I started using the computer to do the Grateful Dead show, I found the capabilities vastly improved," he says. "When you do it on a computer, you record all the parts you think you'll want and put them on the hard disk. Instead of cutting from one thing to another, you can blend from one thing to another."

ONE OF THE CONTROVERSIAL DEBATES THAT SURROUNDS THIS TECHNOLOGY IS: WHAT ARE THE RIGHTS OF THE ORIGINAL ARTIST? SOME SAY THAT APPROPRIATING RECOGNIZABLE SEGMENTS OF MUSIC TO CREATE A SOUND SCULPTURE OF A DIFFERENT FORM IS PLAGIARISM. SOME ARGUE IT ROBS THE MUSIC'S ORIGINAL CREATOR OF BOTH FINANCIAL GAIN AND RECOGNITION OF HIS ARTISTRY.

There are some breathtaking advantages to digital sound editing over the old days of reel-to-reel, analog work. Crossfades can last up to a hundred seconds. No longer does a sound technician have to physically cut a piece of tape and splice it to another, only to find that the splice was made in the wrong place. With desktop digital audio, experimentation takes place in RAM. An individual sound wave can be cut from one place and pasted to another in less than a second. If a paste isn't done correctly, a simple "undo" steps the piece back to the previous rendition. With the setup Gans has, he can set the undo feature to twenty-five or more back-steps. The tradeoff is that it takes a lot of RAM to keep track of that many versions.

With a computer, the work is also a lot easier, he says. No longer hobbled by the physical limitations of audio tape, Gans can quickly flip from one segment of a piece to another without having to wait for tape to rewind or fast-forward. "You can put your entire production up in the window and spot-check it," he said. He can have up to twelve audio tracks on screen at once, but says he seldom has the full dozen tracks up at the same time because "I don't tend to do things that are very complex. A twelve-track production would likely be a movie soundtrack with several stereo tracks and various effects tracks. For most of my work, I rarely need more than five tracks."

Gans admits that the ease of digital editing does not necessarily hasten the completion of a project. "You can spend a lot more time getting the transition just right on the computer because you're not doing it with a razor blade. You can really worry something to death because you have the ability to adjust something minutely." He even acknowledges a certain nostalgia for the old days of analog editing. "Sometimes I miss the hunching over that hot splicing block for hours at a time, but I like the result of computerized work better."

Though many of his creations are done for the sheer joy of it, he also uses mutilaudio in his work. "I use the technique to create material for my show. Every week on the *Grateful Dead Hour*, you'll hear, 'Here are some scenes from next week's show.' That's mutilaudio there. I need to make a twenty-second audio picture of an hour's show... It's an opportunity to use the entire recorded output of the Grateful Dead as a palette for these concise, evocative pictures."

WHOSE WORK IS IT, ANYWAY?

Gans has an agreement with the Grateful Dead, according to which "I have an exclusive contract with them to put together this show, and I have exclusive access to their archives." When he begins to create sound paintings using the material of other musical artists as his building blocks, the issues are far less clear.

One of the controversial debates that surrounds this technology is: What are the rights of the original artist? Some say that appropriating recognizable segments of music to create a sound sculpture of a different form is plagiarism. Some argue it robs the music's original creator of both financial gain and recognition of his artistry.

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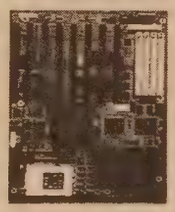

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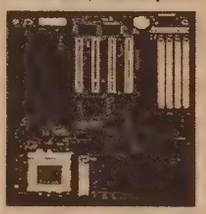

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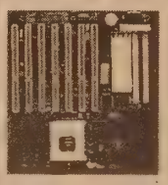

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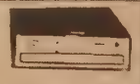

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MUTILAUDIO *continued...*

tion should be treated differently than other forms of artistic borrowing with regard to copyright infringement. In the written medium, place quotation marks around material from other sources and—with correct attribution—it is considered a perfectly legitimate literary device. Andy Warhol immortalized a can of soup, and Campbell's was happy for the publicity.

But when it comes to using a preexisting sequence of notes as the structural material for new creations, there's a whale of a gray area. The hip-hop practice of sampling—taking small segments of multiple songs and looping them together to create a new sound—is considered highly controversial by many in the music industry. Even when the motive of profit is not an issue, objections have been raised. Sound artist John Oswald, who created a CD called "Plunderphonic" that included radically altered music originally recorded by performers ranging from Dolly Parton to Michael Jackson, was forced to destroy all copies he owned of the CD, despite the fact that they were freebies, clearly marked "Not For Sale."

Gans insists that mutilaudio work should be treated no differently than the work of any artist who borrows from the art of the past to build the art of the future. "Suppose I make a collage, a face. I borrow the smile from the Mona Lisa, the eyes from Rivera's portrait of Kahlo, the nose from a Picasso—I'm talking about tearing pieces of paper upon which are printed copies of these famous works. Every element of this portrait is someone else's work, but the composite is something I came up with."

In fact, it is the ability to rearrange existing work to create a new context and content that fascinates him. "In a way, it's a very unfortunate hobby to have because it runs afoul of the law and other people's proprietary interest in their work. I think of it as satire, I think of it as a new form of expression that is made possible by this technology... If you live in modern times, you are constantly bombarded by sounds and you can't help but have ideas about them. I use stuff I hear to do something that I think expresses my consciousness. It just happens that I am using, as building blocks, other people's words or music."

Gans also notes that, in general, the legality of mutilaudio work only becomes questionable when money is at stake. He avoids potential copyright problems when playing his creations on the air by carefully crediting each artist whose work can be heard, even if only for a split second.

Gans doesn't limit himself to musical manipulations. Some of his strongest work is in the realm of the spoken word, where it's legal to declare open season on the foibles of politics. He is experimenting with building audio satires by taking politicians' speeches and putting them into hysterically funny, and often more truthful, arrangements. He has reedited a recent State of the Union address to startling effect. "My fellow Americans, it is politics as usual..." drawls the voice of Bill Clinton as an audience breaks into laughter and spontaneous applause in the background.

Whether Gans is putting together a sound collage for the next *Grateful Dead Hour*, or rearranging Senator Exon's latest dire warnings about the dangers of porn on the Internet, he never grows tired of the tools of experimentation. "I've found the Mac to be a fabulously compliant learning environment. It rewards exploration. You have to be brave and try things, develop your own techniques. The manuals that come with computer systems can only tell you so much, they can't inspire you. A lot of what I'm doing is just seeing what can be done." (David Gans has a Web page with examples of his mutilaudio at *http://www.well.com/user/tnfl*.) ■

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MultiMedia & BEYOND

MULTIMEDIA AUTHORING *continued from page 184*

A multimedia authoring tool is essentially a program that lets a developer create the interface and the "environment" where the user navigates through the various parts of a multimedia title.

form solution by bundling Director 4.0, SoundEdit 16 1.0 (Mac) or Sound Forge 3.0 (Windows), Macromodel 1.5 (with Pixar's Renderman), and Adobe Premiere 4.0.

HSC's InterActive is an ideal place for the nonprogrammer to start learning about multimedia authoring. It is excellent as a quick prototyping tool for larger projects and can create fairly sophisticated presentations in its own right. It also includes a complete copy/delivery system for placing applications on CD-ROM, disk, or other media.

ADDITIONAL CONSIDERATIONS

Before purchasing an authoring package carefully examine production needs, training time to learn the package(s), and the end-user's needs. No single package will always meet all your needs, and in fact, many developers use several authoring packages. Often, it is also necessary to use additional video and sound editing packages, image processing, file format conversion utilities, and database and file management packages to get the job done.

Compare features, prices, budget, and time contraints. Weigh the strengths, weaknesses, and options of each. Even after all this research there is still no way to be fully sure how well any package is going to fill your needs until you've encountered your own case-specific sets of problems. ■

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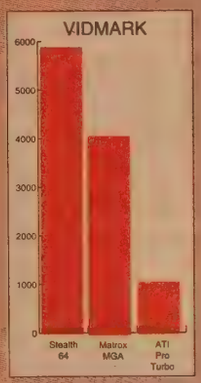

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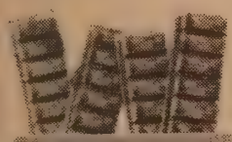

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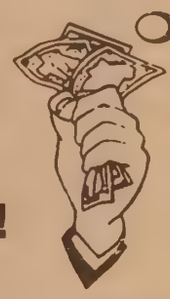

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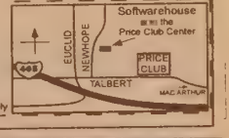

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Product Spotlight

New Products *continued from page 208...*

Nickelodeon Director's Lab

Published By: Viacom New Media
For: MS-DOS
List Price: $59.95
Reviewed By: Pamela Mason

Director's Lab is a "multimedia creativity kit for kids" that turns their computer into a complete production studio, and puts them in the director's chair.

Kids can use the same tools that are found in a real-world studio to create their own animations and multimedia productions for school projects or just for fun. They traverse through different "rooms" such as the Video Editing Suite, the Graphics Studio, the Music Studio, and the Sound Effects Studio. I recently toured the Nickelodeon Studios production facility in Orlando, Florida, and can say that the rooms in Director's Lab are actually quite similar to the real rooms where Nickelodeon puts together its programming. The walls there, as in this package, really do have cartoons and characters painted all over them!

The interface carries on the look and feel of the Nickelodeon channel, complete with a HELP blob that invokes Clarissa (Melissa Joan Hart), star of Nickelodeon's *Clarissa Explains It All*, on a video monitor, to help and provide instruction. You can sit at the video-editing console and step through one of hundreds of video clips from among the huge Nickelodeon library archives. You can embellish these clips by adding the familiar Nick paint splats, Nick Jr. images, and cartoons, or you (er, or your kids) can create a masterpiece from scratch. The resulting multimedia videos can be traded among friends and played back on other computers (from MS-DOS) by packaging them up using Video-To-Go and then transferring them via floppy disks.

In addition to the exceptional graphics, this package excels in its documentation style and installation process. The manual is a fold-over easel, like an artist's, that provides very thorough instructions. During installation you are told that it "will attempt to notify you of any problems you may have running Nickelodeon Director's Lab and will try to offer a solution to the problem." It actually does. Those who write software for adults could learn a lot from how Director's Lab addresses the most common and often frustrating MS-DOS installation problems.

Director's Lab has one of the most intuitive and creatively designed interfaces I have ever encountered, and yet it has the power to create sophisticated work. Buy this program for your kids. If you are an adult looking for a nonthreatening, whimsical way to learn about multimedia—buy it for yourself! (Viacom, 1-800-469-2539)

New Products *continued from page 218...*

PhoneDisc PowerFinder

Published By: Digital Directory Assistance
For: MS-DOS, Windows, and Macintosh
List Price: $159
Reviewed By: Woody Liswood

Most of the various CD-ROM products that claim to contain the current phone numbers of everyone in the United States have been a disappointment. For example, one disk set listed me at a house I had not lived in for over four years. However, the latest edition of PhoneDisc has changed my opinion about this type of software product.

PhotoDisc PowerFinder is a collection of five CD-ROMs containing everybody I looked for in each part of the country. I also checked business listings. They appeared to be current and well edited.

It comes with MS-DOS, Macintosh, and Windows software all on the CD-ROMs and could not be easier to install or use. The interface is simplicity itself. A window fills the bottom half of the screen where it displays last name, first name, address, and telephone number.

The entries in the database are indexed by Name, Business Name, Address, and Telephone Number. Businesses are indexed by SIC code rather than by business name. While I might want to find a business by its code number, I probably, more often, want to find it by the name of the business.

To find a specific address you select the city, then the state. Next, you enter the street, without the street number. Lastly, you must scroll through the street numbers to the one you want. This may sound odd, but it works smoothly.

After selecting a listing, you can export it, dial it, or even print it. As you select an entry, a smaller window shows you a label with the same information. Exporting from the Windows software places the information in a comma-delimited file.

I could not find any reason to call technical support. Everything worked and installed with no problems. However, in addition to an 800 number, support is available through CompuServe.

This is one of those products you will find useful for marketing, for finding old friends, or relatives you have fallen out of contact with. (Digital Directory Assistance, Inc., 6931 Arlington Rd., Suite 405, Bethesda, MD 20814-5231. 1-800-284-8353)

PC Software Review

KPT Convolver

Published By: HSC Software
For: Windows/Windows NT (16- and 32-bit versions packaged together)
List Price: $199
Reviewed By: Pamela Mason

KPT Convolver is a new plug-in production filter for digital design. Plugging in to any image processing program that fully supports the Adobe Plug-In architecture, KPT Convolver allows you to explore and design filter effects derived from their custom "convolution kernels" technology.

Convolver can be used correctively, or creatively. You can correct, touch up, enhance, sharpen, and color correct an image or creatively enhance it, for example turning clouds into marble. Convolver offers a very powerful toolkit for image processing. In real time, millions of variations can be derived from the original image.

To use Convolver, first launch the host image-processing program such as Adobe Photoshop (Convolver comes bundled with Micrografx Picture Publisher paint and image processing program if you don't currently own one). Next, open an image of your choice and then open Convolver.

Convolver has three main modes: Explore, Design, and Tweak. Explore lets you try different effects randomly. Here the original effect is mutated, generating fifteen cousins, or variations. In this mode you mutate effects or control the genetic diversity, "exploring" how different filter effects interact with an image. In Design mode you can more methodically customize a filter effect, and in Tweak mode you can apply finishing touches.

Convolver is another innovative product from HSC. Conceptually it gives a whole new level of artistic freedom to the digital artist. From a usability standpoint it blows away all the extraneous buttons and dialog boxes to create a lean, intuitive work environment. If you work with images, Convolver is a must-have tool for your image-processing arsenal. (HSC Software, Inc., 6303 Carpenteria Ave., Carpenteria, CA 93013. 805/566-6274)

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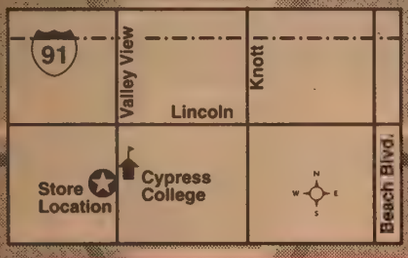

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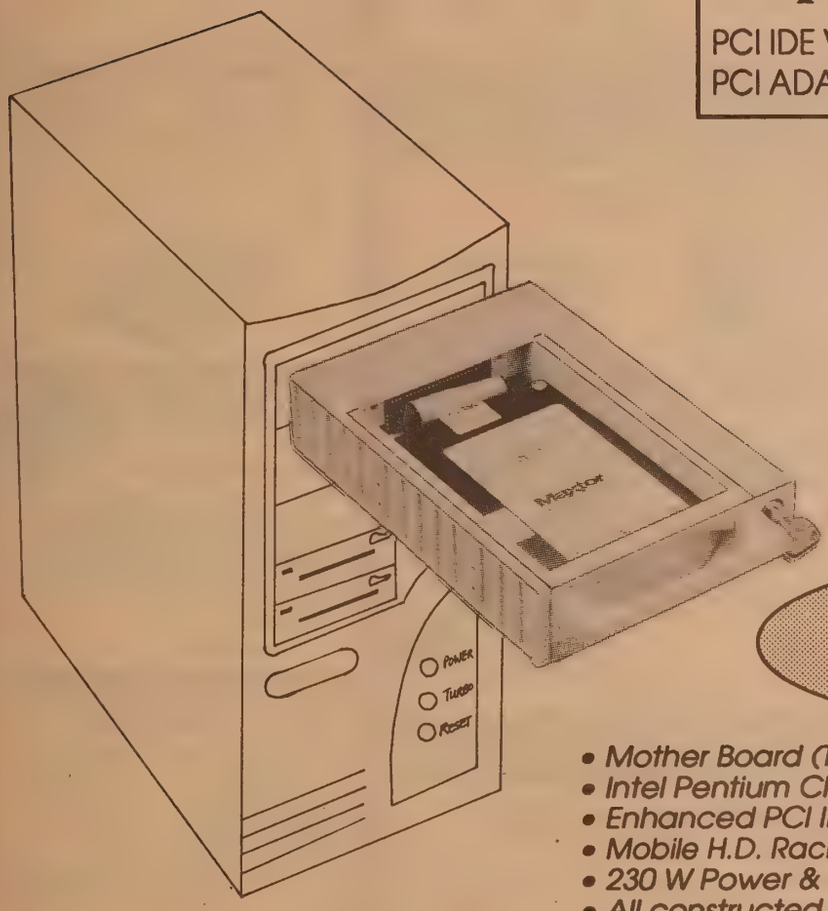

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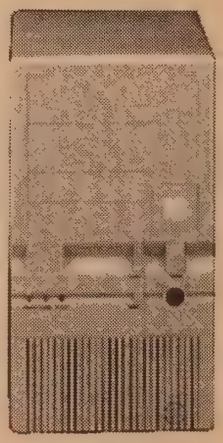

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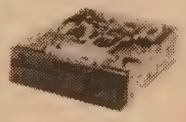

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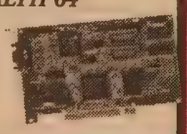

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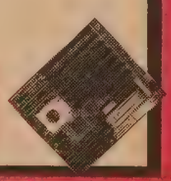

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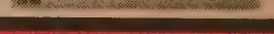

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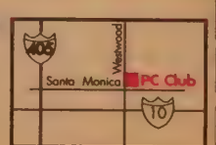

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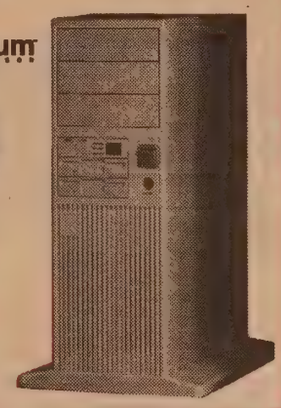

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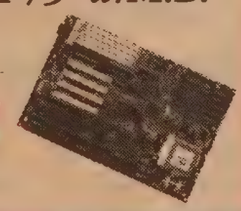

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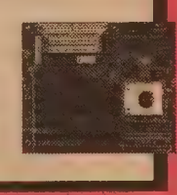

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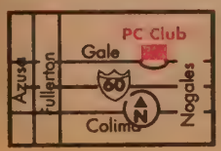

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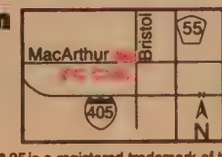

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* AC adapter & carrying bag

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* KB, monitor, docking station & game ports
* Built-in joystick
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* Connect up to 4 hard drives
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* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Toshiba Quad-speed (4X) CD-ROM drive
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* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Toshiba Quad-speed (4X) CD-ROM drive
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* 540 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 high speed serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Double-speed (2X) CD-ROM drive
* 140 Watt Hi-Fi stereo speakers

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DX2-80 MHz $1239
DX2-66 MHz $1219

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* INTEL pentium-overdrive ready
* CPU cooling fan
* 256K Cache
* 8 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 540 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 high speed serial, parallel, & game ports
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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Netscape's IPO: The Untold Story

Or

Inside The Columnist's Tortured Mind

As many of you *know, I have a penchant for writing short fiction on this page. Little plays seem to be my favorite vehicle. I start with a ludicrous parody and let it develop into something meaningful.*

People read these gems and say to themselves, "Gee, that Dvorak makes it look so easy." But in fact there is a lot of anguish involved. More than it's worth. Most of these attempts at satire run astray before they get far.

Here are three columns that ended so soon I could never use them. The fact is, writing takes on a life of its own, and there is nothing you can do about it.

The following attempts were made to explain—and somehow ridicule—the ludicrous Netscape public offering, which shot the stock to $75 a share the first day. I tried everything and nothing worked.

The Venture Capital Scenario

It was a meeting at Klaptrap, Pustule, Corndog, and Meyers—the top venture capital firm in Boston. The subject: The ridiculous valuation of Netscape—a company with virtually no sales and a good idea.

Klaptrap: Why didn't we think of this? Look at the killing these guys made on the public offering!

Pustule: I had the idea last year and nobody listened, or cared!

Corndog: Did not! I did!

Pustule: Did too!

Corndog: Not!

Meyers: Gentlemen. It's too late to argue. We've got to beat them. We can come up with something better. Perhaps one of our new associates can help. Gentlemen, meet Jennifer Abdul.

A tall, slender, exotic-looking woman with a jug of coffee ambles in. The men all stand. Klaptrap adjusts his tie. Corndog stands transfixed. She's a beauty.

Abdul: Someone asked me to get coffee. Would you gentlemen like some?

The foursome all nod their head and shove a cup towards her. She pours and they all toast and drink. Within seconds each grabs his throat.

Pustule: What's in this coffee???

Abdul: Poison, you idiots. Get your own damn coffee!

All four men drop dead.

Abdul: The company is mine, mine, mine!

Ok, that didn't go anywhere. Let's take it from the perspective of a software developer.

The scene is in Menlo Park. The company is Night Train Software, Internet Web page developers. Three guys and one female are sitting around a cheap table lamenting the Netscape deal.

Jim: That Netscape deal galls me. We could have done that!

Jerry: Yeah. We could have!

Don: We were ripped off. We had this idea, man. Those guys are nothing special.

Sally: Maybe if we worked harder instead of sitting around gabbing all night long.

Jim: Yeah, maybe. [*Grabs a piece of pizza*]

Don: Sally, can you get us some coffee?

Sally: [*pause*] Sure!

Sally leaves the room and returns with a large coffee pot that is clearly boiling hot. Don turns around just in time to get a face full of boiling water as Sally swings around like Bruce Lee kicking him square in the face. As the other two guys stand up she pulls out a Mac-11 and peppers the room killing all three.

Sally: Get your own damn coffee!

This doesn't go anywhere either. My characters are just too uptight. Let's try it from the perspective of a PR firm.

It's the offices of Windbag and Elder. The top Silicon Valley PR firm. Janice Windbag and Jerry Elder are meeting with associates Kelli Blue and Kim Peoples.

Windbag: What is wrong with us? Why can't we land a client like Netscape? Do you realize their PR firm got stock at a dollar a share!

Elder: It's unbelievable.

Kelli: Yeah!

Kim: Yeah!

Windbag: We have to find a way to make up for this terrible loss. What to do? What to do?

Kelli: I have an idea!

Windbag: What?

Kelli: If we painted our walls a nice light peach and put peppermint oil near the entrance we'd change our luck and people like Netscape would come to us. We wouldn't have to do anything.

Kim: I've heard that works. We also need more flowers.

Windbag: We'll study it. Jerry, will you be a dear and get us some coffee, this meeting looks like it's going all night.

Elder leaves the room and comes back with a pot of coffee and pours everyone a glass. Windbag winces when she tastes it.

Windbag: This coffee is insipid! Weak. Crappy. You make the worst coffee.

Elder: I thought it was the right mixture.

Windbag: Kim, be a dear and bring us some good coffee!

Kim: Gladly!

Kim gives Elder a look of superiority and leaves. A few minutes later she returns with a stunningly delicious pot of coffee.

Windbag: Ah! Excellent. Jerry, you should learn from Kim.

Elder: Maybe you should get your own damn coffee.

The three women are shocked at his insolence. Windbag tosses the coffee in his face.

Windbag: You're fired, you bastard!

Sigh. Maybe this isn't about Netscape after all. ■

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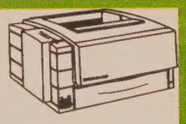

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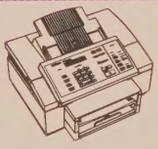

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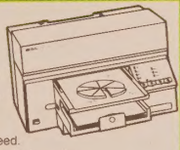

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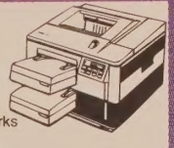

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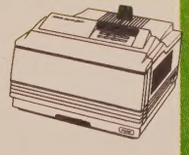

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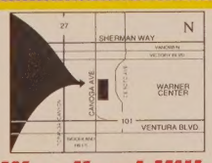

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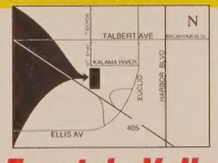

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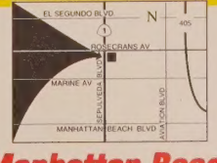

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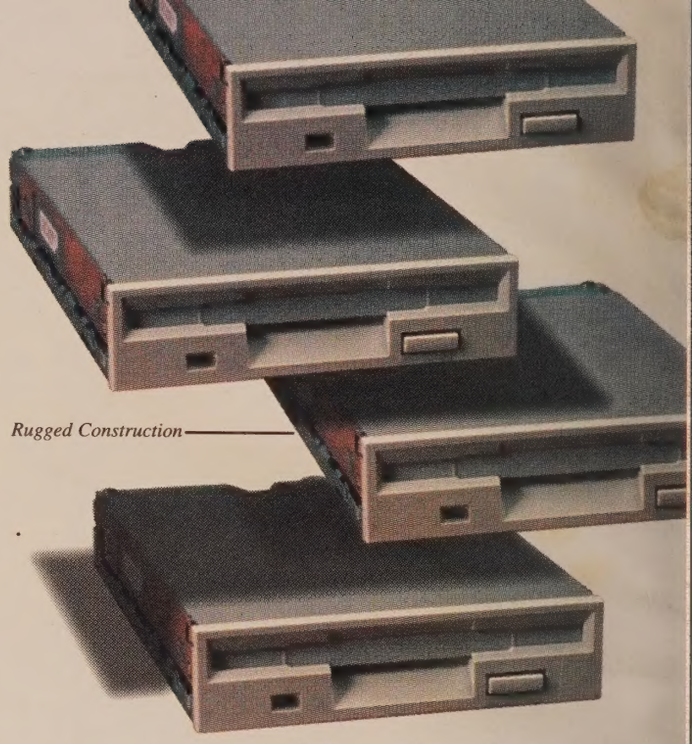

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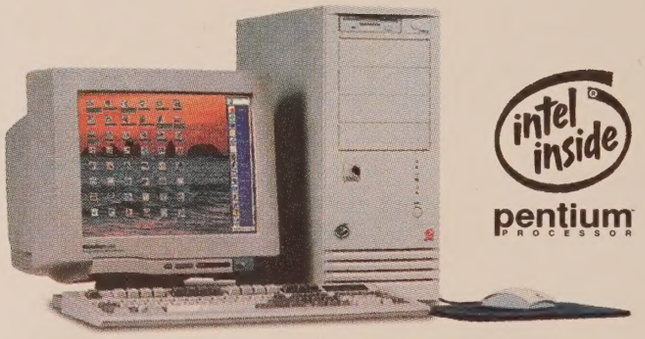

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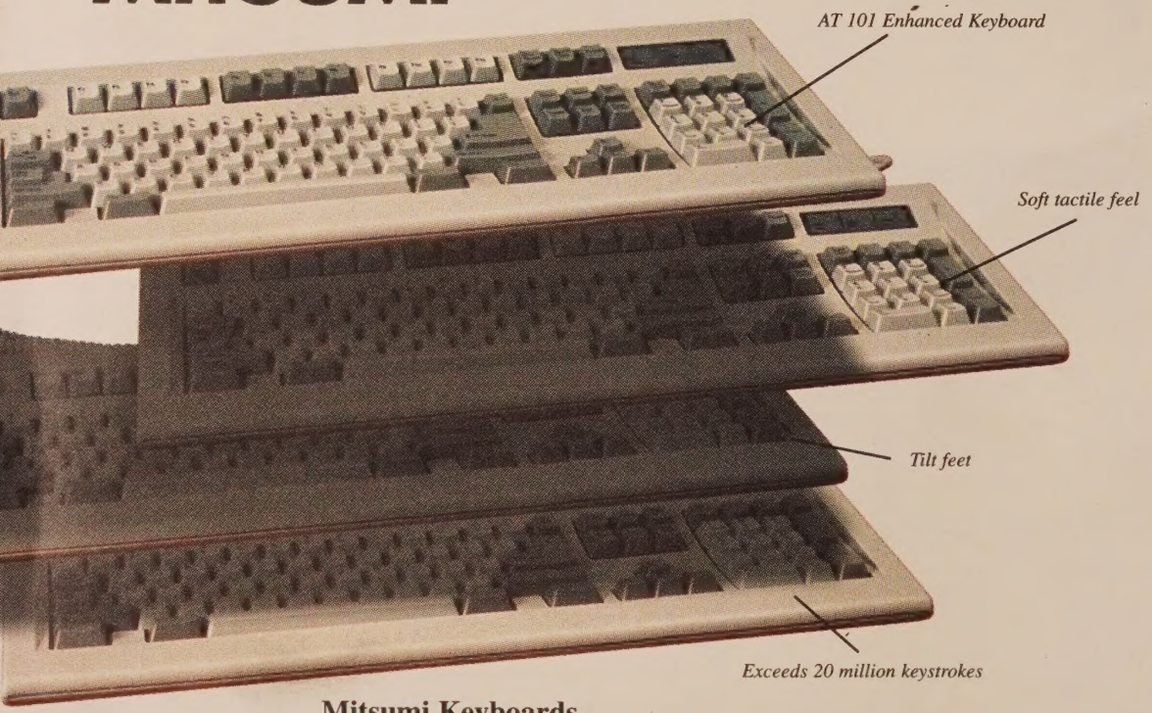

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